

UNCLASSIFIED

AD NUMBER
AD834363
NEW LIMITATION CHANGE
TO Approved for public release, distribution unlimited
FROM Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Jan 1963. Other requests shall be referred to Central Intelligence Agency, Office of Central Reference, 2430 E. Street, NW, Washington, DC 20505.
AUTHORITY
CIA ltr, 7 Sep 2004

THIS PAGE IS UNCLASSIFIED

AD834363

FILE COPY



FOR OFFICIAL USE ONLY

CONSOLIDATED TRANSLATION SURVEY

Number 61.

For ⁽¹¹⁾ January 1963

(12) 270 p.

DDC
RECEIVED
JUN 26 1968
B.

Prepared by

Foreign Documents Division
CENTRAL INTELLIGENCE AGENCY
2430 E St., N. W., Washington 25, D. C.

FOR OFFICIAL USE ONLY

1141 501

CONSOLIDATED TRANSLATION SURVEY

FOR JANUARY 1963

TABLE OF CONTENTS

Page

Notes concerning the survey	c
Request for copies	d
USSR	
Economic	1
Political	15
Military	16
Geographic	17
Sociological	18
Biographic	19
Eastern Europe	
Economic	20
Political	42
Military	44
Geographic	46
Sociological	47
Western Europe	
Economic	51
Political	52
Military	56
Geographic	57
Sociological	57
Biographic	57
Africa	
Economic	57
Political	59
Geographic	59
Sociological	59
Middle East	
Economic	60
Political	61
Military	62
Sociological	62

Far East	
Economic	63
Political	70
Military	75
Geographic	75
Sociological	76
Latin America	
Economic	81
Political	82
Military	84
Geographic	84
Sociological	85
North America	
Political	85
Geographic	85
World Wide	
Economic	85
Scientific	
Aeronautics	86
Astronomy	87
Biology	88
Chemistry	93
Electricity	102
Electronics	102
Engineering	107
Fuels	118
Geophysics	118
Mathematics	123
Medicine	125
Minerals/Metals	135
Nuclear Physics	155
Physics	157
Space Research	176
Miscellaneous	178
Information on Cover-to-Cover Translations	182
Author Index	243

CONSOLIDATED TRANSLATION SURVEY

✓
An author index to items in this issue is appended.

This Survey is prepared monthly by Foreign Documents Division, CIA, from lists received through cooperation of US government agencies and includes translations of such agencies, private industry, universities, research institutions, and commercial translation organizations. It is a compilation of foreign documentary projects, completed or started during the month preceding this publication.

Translations are listed by area and subject category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date and data of publication, and publication identification of the completed projects are given when available.

↖
Some of the above details may be unavailable on projects listed "in process." New projects in process will be listed only once, their subsequent listing being made when they are reported completed. Projects in process, i.e., not completed as of the date of this Survey, are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title.

✗

REQUESTS FOR COPIES

Requests for copies of published projects should be made direct to the designated producing organization.

All requests for items prefixed by "CIA" should be addressed to Office of Central Reference, 2430 E Street, NW, Washington DC.

Addresses of producers follow:

ACSI

Department of Army
Assistant Chief of Staff, Intelligence
Intelligence Documents Branch
Washington 25, DC

Requests from non-Government sources for
Army documents should be ordered through

Dept of Commerce
Office of Technical Services
Washington 25, DC

ACSIL

Admiralty Center for Scientific Information and Liasion
Queen Anne's Mansions
St James Park
London, SW 1, England

AEC - Atomic Energy Commission (see Department of Commerce)

AF

Department of Air Force
Collection and Dissemination
Assistant Chief of Staff, Intelligence
ATTN: AFCIN 1B3
Washington 25, DC

AFCRL

Air Force Cambridge Research Laboratories
Research Library
Office of Aerospace Research
United States Air Force
Laurence G. Hanscom Field
Bedford, Massachusetts
ATTN: CRXLR

AGU

American Geophysical Union
1515 Massachusetts Avenue, NW
Washington 5, DC

AIEE

American Institute of Electrical Engineers
Special Subscription Department
41 East 28th Street
New York 16, New York

AIP

American Institute of Physics
335 East 45th Street
New York 17, New York

Amer Math Soc

American Mathematical Society
190 Hope Street
Providence 6, Rhode Island

AMS - Army Map Service (see ACSI)

BISI

British Iron and Steel Institute
4 Grosvenor Gardens
London, SW 1, England

CB

Consultants Bureau, Inc.
227 West 17th Street
New York 11, New York

Cleaver-Hume Press Ltd

Cleaver Hume Press Ltd
31 Wright's Lane
London, W 8, England

CS

Chemical Society
Burlington House
London W.1.

CSIR

Council for Scientific and Industrial Research
The Head
Information Division
PO Box 395
Pretoria, Africa

- e -

CTT

Columbia Technical Translations
5 Vermont Avenue
White Plains, New York

Dept of Com

Department of Commerce
Office of Technical Services
Washington 25, DC

Dept of Interior

Department of Interior
Library
Washington 25, DC

Dept of State

Department of State
Division of Library and Reference Service
132 State Annex 1
Washington, DC

Derwent Information Service

Derwent Information Service
Rochdale House, Theobolds Road
London, WC 1, England

DTMS - David Taylor Model Basin (see Navy)

Emmanuel College Res Tr Center

Emmanuel College
Research Translation Center
The Fenway
Boston, Massachusetts

ERDL

Engr Res Dev Lab/Fort Belvoir (see ACSI)

FTD - Foreign Technology Division (see AF)

HB

Henry Bratcher Technical Translation
PO Box 157
Altadena, California

Hindusthan Publishing House

Old Katchery Road.
Lucknow, India

HO - Hydrographics Office (see Navy)

ID - Intelligence Document (see ACSI)

ISA

Instrument Society of America
313 Sixth Avenue
Pittsburgh 22, Pennsylvania

JPRS

Joint Publications Research Service
For non-scientific reports:

Photoduplication Service
Library of Congress
Washington 25, DC

For scientific-technical reports:

Department of Commerce
Office of Technical Services
Washington 25, DC

MEB

Mark E. Burgunker
541 West 113th Street
New York 25, New York

NASA

National Aeronautics and Space Administration
1512 H Street, NW
Washington 25, DC

Navy

Department of Navy
Office of Naval Intelligence
Washington 25, DC

NIH

National Institutes of Health
Translating Section, Library
Building 10, Room 11N112
Bethesda 14, Maryland

NMS - Navy Medical School (see Navy)

NRL

Naval Research Laboratories (see Navy)

ONI - Office of Naval Intelligence (see Navy)

OSA

Optical Society of America, Inc.
1155 16th St, N.W.
Washington 5, DC

OTS

Office of Technical Services
Department of Commerce
Washington 25, DC
(Also available through Department of
Commerce Field Offices)

RAND

RAND Corporation
ATTN: Publications Office
1700 Main Street
Santa Monica, California

RAPRA

Rubber and Plastics Research Association of
Great Britain
Shawbur
Shrewsbury, England

All Orders from the American Continents:
Palmerton Publishing Company, Inc.
101 West 31st Street
New York 1, New York

RRG

Review of Russian Geology
Box 6665, College Station
Duke University
Durham, North Carolina

Tex Inst

The Textile Institute
10 Blackfriars Street
Manchester 3, England

TIL - Technical Information Library

Ministry of Aviation
TIL 1(b)
Leysdown Road
Nottingham
London SE 9, England

Us Army Biological Laboratories - (see OTS)

USDA

Department of Agriculture
Foreign Agricultural Service
Room 5609
14th and Independence Avenue NW
Washington 25, DC

319th MI Bn - 319th Military Intelligence Battalion
(see ACSI)

519th MI Bn - 519th Military Intelligence Battalion
(see ACSI)

525th MI Gp - 525th Military Intelligence Group
(see ACSI)

P R O J E C T S R E P O R T E D
F O R J A N U A R Y 1 9 6 3

USSR

Economic

The Petroleum Production Engineering Process, by
V. A. Amiyan, V. M. Muravyev, 16 pp.
RUSSIAN, rpt, State Petroleum and Mineral Fuels
Engineering House, Moscow, 1962.

MEB

Economic Geography, by Gleb Nikanorovich
Cherdantsev, 32 pp.
RUSSIAN, bk, Ekonomicheskaya Geografiya,
Geodezizdat, Moscow, 1961, pp 1-123.

JPRS 16726

Soviet Industrial Economics in the Electrical
Industry, by A. S. Konson, 186 pp.
RUSSIAN, bk, Ekonomika Elektrotekhnicheskoi
Promyshlennosti SSSR, 1960, 296 pp.

OTS 61-31201
PL-480

Podol'sk Microwire Plant, by R. Galimzyanova,
S. Marichev, 41 pp.
RUSSIAN, bk, Ekonomim Tsvetnyye Metally,
1961, pp 1-59.

JPRS 16073

Moscow Manometer Plant Defines New Goals,
by Aleksandrovich Lachugin, 16 pp.
RUSSIAN, bk, Kazhdomu Priboru Vysokuyu
Nadezhnost', Moscow, 1962, pp 1-44.

JPRS 16803

USSR Sea Transportation, by V. G. Bakayev,
S. M. Bayev, 434 pp.
RUSSIAN, bk, Transport SSSR; Morskoy Transport,
Moscow, 1961.

JPRS 17024

Water Supply Improvements in the USSR and
Methods of Furthering Such Improvements,
by S. L. Mirkin, 512 pp.
RUSSIAN, bk, Vodnyye Melioratsii v SSSR i
Puti ikh Razvitiya, Moscow, 1960, pp 1-284.

JPRS 16745

Ust -Kamenogorsk Lead-Zinc Combine Justifies
Its Title of Enterprise of Communist Labor,
by B. Odiashvili, 6 pp.
RUSSIAN, per, Agitator, 19 Oct 1962, pp 44-47.

JPRS 17105

USSR
Economic (Contd)

Meeting of Workers of the Electric Engineering Plants of the Ministry of Railways, 6 pp.
RUSSIAN, per, Avtomatika Telemekhanika i Svyaz', No 9, 1962, p 45.

JPRS 16923

Calculating Expenditures for the Production of New Equipment, by N. Ivanov, 6 pp.
RUSSIAN, per, Bukhgal'terskiy Uchet, No 9, 1962, pp 16-20.

JPRS 16940

The Application of Punched-Card Calculating Machines in the Compilation of Norm Calculations, by V. Liberman, 6 pp.
RUSSIAN, per, Bukhgal'terskiy Uchet, No 10, 1962, pp 48-52.

JPRS 17114

Automation in the Pulp and Paper Industry, by L. N. Preobrazhenskiy, S. S. Granat, 8 pp.
RUSSIAN, per, Bumazhnaya Promyshlennost', No 10, Oct 1962, pp 6-8.

JPRS 16950

Analyzing the Information on Operational and Production Planning, by S. Mitin, 11 pp.
RUSSIAN, per, Byul Nauch Informatsii: Trud i Zarabotnaya Plata, No 6, 1962, pp 35-43.

JPRS 17007

Application of Electronic Computing Techniques for Processing Primary Statistical Information in the Field of Technical Material Supply, by A. Yefremova, 12 pp.
RUSSIAN, per, Byul Nauch Informatsii: Trud i Zarabotnaya Plata, No 9, 1962, pp 22-29.

JPRS 16795

The State Standard for Cements, 8 pp.
RUSSIAN, per, Byul Stroitel Tekh, No 9, Sep 1962, pp 17-20.

JPRS 16778

The Construction of Fixed Gas Turbines in the RSFSR, by M. F. Sichikov, 9 pp.
RUSSIAN, per, Byul Tekh Ekon Informatsii, No 11, 1962, pp 65-69.

JPRS 16961

Selected Articles From the Russian Newspaper Ekon Gazeta.

No 40, 29 Sep 1962, pp 6-8.
New Agricultural Administrative Agencies--Organizers of Production, by P. Chaykin, 6 pp.

JPRS 16818

No 41, 6 Oct 1962.
Improve the Management of Construction in Belorussian, by I. Zhizhel', 7 pp, (p 14).

JPRS 16778

A Criminal Anomaly, by G. Vasil'yev, G. Rubtsov, 11 pp, (p 35).

JPRS 16961

USSR
Economic (Contd)

Selected Articles From the Russian Newspaper
Ekon Gazeta. (Contd)

No 42, 13 Oct 1962.
Increasing Equipment Use Coefficient, by
T. Lapin, 5 pp, (pp 4, 5). JPRS 16940

Improving The Quality of Coke, by
Ya. Obukhovskiy, 11 pp, (p 11). JPRS 16786

No 43, 20 Oct 1962. JPRS 16977
Production - Management Organizations in
Sovkhozes and Kolkhozes, by A. Kaminskiy,
8 pp, (pp 2-4). JPRS 16977

Financial Accounts in Rural Construction,
by B. Vladimirov, 10 pp, (pp 17-20). JPRS 16977

No 44, 27 Oct 1962.
Stimuli for Higher Quality, by F. Veselkov,
6 pp. JPRS 16871

Quality, Reliability, and Durability:
Summary of Results of the Business Club
Questionnaire, 13 pp, (pp 4, 5). JPRS 17114

New Literature on the Economic Nature of
Public Funds for Consumption, by P. Savchenko,
12 pp.
RUSSIAN, per, Ekon Nauki, No 5, 1962, pp 95-99. JPRS 16796

Selected Articles From the Russian Periodical
Ekonomika Sel'skogo Khozyaystva, No 9, 1962.

On Methods of Analysis of Kolkhoz Income,
by A. Libkind, 12 pp, (pp 9-15). JPRS 16818

Improved Prices Are an Important Pre-
requisite of Agricultural Development,
by L. Grushetskiy, 17 pp, (pp 16-23). JPRS 16818

Organization of Land Exploitation on the
Level of Current Tasks, by S. Udachin,
10 pp, (pp 102-108). JPRS 16818

Material Incentives on Collective Farms,
by I. Polovenko, 6 pp, (pp 115-117). JPRS 16915

USSR

Economic (Contd)

Translate Into Reality the Master Plan of Development of the Building Components and Elements Industry, 8 pp.

RUSSIAN, per, Ekonomika Stroitel'stva, No 9, 1962, pp 3-5.

JPRS 16778

The National Economic Importance of Using Precast Reinforced Concrete in Construction, by V. Malyugin, 7 pp.

RUSSIAN, per, Ekonomika Stroitel'stva, No 9, 1962, pp 37-42.

JPRS 16778

Construction Costs Should be Reduced, by N. Artem'yeva, 5 pp.

RUSSIAN, per, Finansy SSSR, No 9, 1962, pp 65-69.

JPRS 17018

Equipment, Amortization, and Savings on the Railroads, by A. Ivanov, 6 pp.

RUSSIAN, np, Gudok, 19 Oct 1962, p 3.

JPRS 17067

Electrification of the Bologoye--Kalinin Sector Encounters Difficulties, by B. Abayev, 5 pp.

RUSSIAN, np, Gudok, 25 Oct 1962, p 3.

JPRS 17067

Soviet Locomotives of the Future, by A. Mikheyev, 6 pp.

RUSSIAN, np, Gudok, 25-26 Oct 1962, p 3.

JPRS 17067

Institute, Laboratory, and Production, by K. Satpayev, 5 pp.

RUSSIAN, np, Izvestiya.

JPRS 17080

Prospects for the Development of Combined Processes of Continuous Casting and Rolling of Steel, by I. N. Golikov, O. G. Muzalevskiy, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk Metallurgiya Toplivo, No 5, 1962, pp 9-14.

JPRS 16733

USSR
Economic (Contd)

Problems Connected With Distribution of Populations
in Large Towns, by M. O. Khauke, 8 pp.
RUSSIAN, per, Iz Ak Stroitel Arkhitektury SSSR,
1962, pp 3-11. (Call No TH 4 I 985)

Army Map Service

Improvement of the Planned Structure in Reconstruc-
tion of Town, by V. A. Lavrov, 7 pp.
RUSSIAN, per, Iz Ak Stroitel Arkhitektury SSSR,
1962, pp 12-24. (Call No TH 4 I 985)

Army Map Service

Development of the Design of Large Refrigeration
Compressors, by Ye. S. Gurevich, A. A. Sofer,
et al, 8 pp.
RUSSIAN, per, Kholodil Tekh, No 5, Sep-Oct 1962,
pp 4-11.

JPRS 16822

Selected Articles From the Russian Periodical
Kommunist.

22 Sep 1962.

JPRS 16914

Potentials of Machine Building Industry, by
I. Suchinskiy, 5 pp.

No 17, 1962.

JPRS 16971

Economic Development and Improvement of
Planning, by S. Starostin, Ye. Frolov, 18 pp,
(pp 16-25).

A Scientific Basis for Leadership in the
Development of Society, 14 pp, (pp 66-72).

No 18, 1962, pp 60-72.

JPRS 17177

The Role of Profits in the Socialist Economy,
by A. Gatovskiy, 19 pp.

Work of the Trade Union Organizations for the
Standard of New Tasks, 5 pp.
RUSSIAN, per, Kommunist Moldavii, No 9, 1962,
pp 26-32.

JPRS 16914

Labor Productivity is the Main Thing, by
Ye. Gol'dberg, 5 pp.
RUSSIAN, per, Kommunist Sovetskoy Latvii,
No 10, 1962, pp 16-19.

JPRS 16822

USSR
Economic (Contd)

Fuller Utilization of Labor Resources in Kolkhozes,
by I. Petrov, 17 pp.
RUSSIAN, per, Kommunist Uzbekistana, No 8, 1962,
pp 56-63.

JPRS 16970

The Current Status of the Botulinum Pathogen
Problem in the Canning Industry, by N. N. Mazokhina,
7 pp.
RUSSIAN, per, Konservnaya i Ovezhchesuahil'naya
Promyshlennost', No 11, Nov 1962, pp 36-39.

JPRS 16913

Mechanization of Transport Operations in a Tele-
vision Receiver Inspection Section, by B. P. Bukharov,
V. Ye. Kornilov, et al, 8 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya
Proizvodstva, No 10, 1962, pp 16-18.

JPRS 17159

Automation and Mechanization of Production Control
at the Leningrad Optical Machinery Plant, by
S. B. Lifshits, 8 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya
Proizvodstva, No 10, 1962, pp 37-41.

JPRS 17159

Machines With Standardized Sub-Assemblines and
Units, by A. A. Vasil'yev, 14 pp.
RUSSIAN, per, Mekhanizatsiya Stroitel'stva,
No 11, 1962, pp 5-8.

JPRS 16870

New Continuous Service Earth Moving Machines,
by Yu. G. Manuylov, 13 pp.
RUSSIAN, per, Mekhanizatsiya Stroitel'stva,
No 11, 1962, pp 20-22.

JPRS 16870

Reserves of Rolling Production for the Service
of Communism, by B. S. Shapiro, 7 pp.
RUSSIAN, per, Metallurg, No 11, 1962, pp 6-8.

JPRS 16869

The Ore Base for the Ferrous Metallurgy of the
USSR, by I. S. Shapiro, 6 pp.
RUSSIAN, per, Metallurg, No 11, 1962, pp 9, 10.

JPRS 16869

Designing the World's Largest Blast Furnace,
by M. B. Rozenshrakh, M. B. Kutner, 11 pp.
RUSSIAN, per, Metallurg i Gornorudnaya
Promyshlennost', No 5, Sep-Oct 1962, pp 3-7.

JPRS 17143

Present Status and Prospects for Further De-
velopment of Electroslag Remelting in the
Ukraine, by B. Ye. Paton, B. I. Medovar, 14 pp.
RUSSIAN, per, Metallurg i Gornorudnaya
Promyshlennost', No 5, Sep-Oct 1962, pp 12-19.

JPRS 17143

USSR
Economic (Contd)

Smelting of 35GS Steel in Oxygen Converters, by
P. S. Rubinskiy, I. I. Entin, 6 pp.
RUSSIAN, per, Metallurg i Gornorudnaya
Promyshlennost, No 5, Sep-Oct 1962, pp 73-75. JPRS 17143

Modern Capitalism and Scientific and Tech-
nological Progress, by I. Ivanov, 30 pp.
RUSSIAN, per, Mirovaya Ekon i Mezhd Otnosheniya,
No 10, 1962, pp 3-14. JPRS 17064

Theoretical Problems of Economics of the Common
Market, by Ye. Varga, 27 pp.
RUSSIAN, per, Mirovaya Ekon i Mezhd Otnosheniya,
No 10, 1962, pp 49-59. JPRS 17064

The Line Icebreaker Leningrad, by A. Dorokhov,
7 pp.
RUSSIAN, per, Morskoy Flot, No 10, 1962,
pp 30-32. JPRS 16695

A Major Reserve for Improving Industrial Management
--Automation, by V. V. Boytsov, 6 pp.
RUSSIAN, np, Moskov Pravda, 25 Sep 1962. JPRS 16710

Selected Articles From the Russian Periodical
Narod Khoz Kazakh, No 9, 1962.

The Focus of Attention is Labor Saving, by
A. Yeleusizov, 11 pp, (pp 11-15). JPRS 16962

Indicators of the Utilization of Basic
Capital are Necessary, by T. Ashimbayev,
8 pp, (pp 27-30) JPRS 17018

Funds are Being Wrongly Utilized, by
A. Sedel'nikov, 6 pp, (pp 31-33). JPRS 17018

Specialization With Regard for State
Interests, by A. Masakbayev, 10 pp,
(pp 50-56). JPRS 17049

Selected Articles From the Russian Periodical
Narod Khoz Uzbek, No 9, 1962.

Possibilities of Developing Ferrous Metallurgy
in Uzbekistan, by V. Gar'kovets, 5 pp, (pp 24-26). JPRS 16869

Differentiation of Cotton-Growing Regions by
Natural and Economic Zones, by I. Shilov, 14 pp,
(pp 51-56). JPRS 16977

Interkolkhoz Organizations in Uzbekistan, by
Kh. Miftakhov, 8 pp, (pp 57-61). JPRS 16977

Cost of Refractories in Central Asia Could be
Reduced by Using Angren Kaolins, by Kh. Gazizov,
5 pp, (pp 81-83). JPRS 17105

USSR

Economic (Contd)

Selected Articles From the Russian Periodical
Nauchno-Tekh Obshch.

No 8, 1962, pp 44, 45.

JPRS 16923

New Precision Equipment, 5 pp.

No 10, 1962.

Public Inspection of the Implementation of
Plans of Scientific Research Works at the
Moscow Combine of Hard Alloys, by
A. Sibirskiy, 6 pp, (pp 12, 13).

JPRS 17115

Inefficient Operation of the Rustavi Nitrogen
Fertilizer Plant, by A. Drabkin, 8 pp,
(pp 36-39).

JPRS 16862

No 11, 1962, pp 31, 32.

JPRS 17069

Oxygen Converters -- The Future of Metallurgy,
by A. Leskov, 6 pp.

The Influence of Economic Relationships on the
Size of the Social Product and the National
Income of the Union Republics, by L. Tarasov,
14 pp.

RUSSIAN, per, Nauch Dok Vysshey Shkoly: Ekon
Nauki, No 6, Nov-Dec 1962, pp 38-48.

JPRS 17114

A Decisive Factor in the Development of Society,
by Yu. Kornnov, 5 pp.

RUSSIAN, per, Novyy Mir, No 5, 1962, pp 275-277.

JPRS 16878

Artificial Industrial Diamonds Created by
Academy of Sciences USSR, by L. F. Vereshchagin,
5 pp.

RUSSIAN, per, Ogonek, No 44, Oct 1962, pp 10, 11.

JPRS 17044

Selected Articles From the Russian Periodical
Partiynaya Zhizn.

No 19, Oct 1962, pp 8-14.

JPRS 16867

The Level of Coordinating Work Must be
Raised, by A. Rudin, 32 pp.

No 21, Nov 1962, pp 8-15.

JPRS 17014

Greatest Results for Smallest Outlays, by
V. Babushkin, 11 pp.

No 22, Nov 1962.

JPRS 17014

Party Responsibility for Industry's Future, 11 pp.

Utilization of Waste Material in Metallurgy, by
I. Goncharov, Yu. Dorofeyev, 12 pp.

JPRS 16958

USSR
Economic (Contd)

Capital Construction is the Main Task, 7 pp.
RUSSIAN, per, Partiynaya Zhizn' Kazakh, No 9,
1962, pp 3-9.

JPRS 17014

Selected Articles From the Russian Periodical
Planovoye Khozyaystvo.

No 9, 1962.

Computing a Draft Plan of Interbranch
Balances for 1962, by L. Berri, F. Klotsvog,
et al, 30 pp, (pp 34-43).

JPRS 17018

Organizing and Setting Norms for Working
Capital, by P. Ivanov, 11 pp, (pp 44-49).

JPRS 16795

On the Use of the Index of the Standard
Cost of Processing in Planning, by
V. Veselov, M. Vladimirov, 24 pp, (pp 50-58).

JPRS 16867

No 10, 1962, pp 44-53.

JPRS 16867

Ways of Improving the Planning and Introduction
of Scientific and Technological Achievements,
by A. Pliner, 24 pp.

Selected Articles From the Russian Newspaper
Pravda.

11 Sep 1962, p 1.
Cold-Cathode Gas Filled Electronic Tubes,
by A. Presnyakov, 6 pp.

JPRS 16923

15 Oct 1962, p 2.
Completion of Modernization at "Krasnaya Etina"
Plant, by N. Isayev, 5 pp.

JPRS 16786

16 Oct 1962, p 2.
Reconstruction of the Yenakiyev Metallurgical
Plant, by V. Belokopytov, 10 pp.

JPRS 16786

17 Oct 1962, p 3.
Workers of the Leningrad Metal Plant imeni
XXII S'yezda KPSS Make Their Contribution to
the Electrification of the Nation, by A. Ivanov,
5 pp.

JPRS 16961

24 Oct 1962.
V.I. Lenin and Scientific Organization of
Labor, by A. Berg, 7 pp.

JPRS 16871

USSR
Economic (Contd)

Selected Articles From the Russian Newspaper Pravda.

- 30 Oct 1962, p 2. JPRS 16786
Hindrances in Technical Progress in
Electrometallurgy, by A. Al'tgauzen,
6 pp.
- 11 Nov 1962. JPRS 16958
Blast Furnace Operations Below Capacity
Due to Errors in Planning, by V. Parfenov,
8 pp, (p 2).
- Planning Indexes and the Rights of Enter-
prises, by S. Zlobinskiy, 5 pp, (p 3).
- New Relays, Executive Mechanisms and Meters,
7 pp.
RUSSIAN, per, Prom Energetika, No 10, 1962,
pp 40, 41. JPRS 16923
- Ways of Cutting the Ore Production Cost at
the Kafan Copper Ore Combine, by G. Lusinyan,
Ye. Pogosyan, 6 pp.
RUSSIAN, per, Promyshlennost' Armenii, No 9,
1962, pp 16-18. JPRS 16817
- Results of Industrial Tests of the QPSB
Frothing Agent at the Kadzharan Concentrator
Factory, by S. Dudenkov, A. Livshits, et al,
8 pp.
RUSSIAN, per, Promyshlennost' Armenii, No 9,
1962, pp 41-45. JPRS 16817
- A Strong Industrial Base for Industrial Con-
struction in Kazakhstan, by T. K. Basenov, 6 pp.
RUSSIAN, per, Promyshlennoye Stroitel'stvo, No 10,
1962, pp 5, 6. JPRS 16778
- Reconstruction of the Dzhambul Superphosphate
Plant, by V. P. Kalyapin, 6 pp.
RUSSIAN, per, Promyshlennoye Stroitel'stvo, No 10,
1962, pp 11-14. JPRS 16862
- An Economical Solution to the Construction of
Magnetic-Station Buildings, by I. Parinov, 5 pp.
RUSSIAN, per, Promyshlennoye Stroitel'stvo i
Inzhenernyye Sooruzheniya, No 5, Sep-Oct 1962,
pp 28-32. JPRS 17094
- Tires With Removable Treads, by D. Savich,
V. Kalechits, 5 pp.
RUSSIAN, pp, Rabochaya Gazeta, 20 Oct 1962. JPRS 16862

USSR
Economic (Contd)

Shortcomings Noted in Mica-Propecting Operations,
by M. M. Dubovik, G. G. Rodionov, 7 pp.
RUSSIAN, per, Razvedka i Okhrana Nedr, No 10,
1962, pp 17-20.

JPRS 17105

Selected Articles From the Russian Periodical
Rechnoy Transport.

Vol II, 1962.

ACSI I-3068
ID 2211701

A. The Novo' Il'unskiy Roadstead Should be
Maintained, by I. Borisov, Ya. Zhirmov,
(pp 7-9).

B. Rationalization and Inventiveness in
the Port of Dnepropetrovsk, by A. Gol'dman,
(pp 17-22).

Vol V, 1962, pp 23-26.

ACSI I-3069-A
ID 2211702

A Complex Solution of the Northern Dvina
Basin Problems, by V. Mitin.

No 9, 1962.

JPRS 16695

Use of Fleet Must be Decisively Improved,
5 pp, (pp 5, 6).

Urgent Problems in Organizing Shipments in
Mixed Railroad-Water Communications, by
K. Tugengol'd, 5 pp, (pp 8, 9).

Trial Results of the Volgo-Don Class of
Motor Ships, by M. Andriyevskiy, 5 pp,
(pp 27, 28).

The Tractors Today and Tomorrow, 5 pp.
RUSSIAN, per, Sel'skaya Zhizn', 27 Nov 1962,
p 3.

JPRS 17139

The Piece-Rate and Premium Wage System, by
N. Dobrodeyev, F. Artamonov, 11 pp.
RUSSIAN, per, Sel'skoye Khozyaystvo Sibiri,
No 8, 1962, pp 6-10.

JPRS 16709

Supplemental Wages on Experimental-Demonstration
Farms, by P. Semyenov, M. Vershinin, 15 pp.
RUSSIAN, per, Sel'skoye Khozyaystvo Sibiri,
No 12, 1962, pp 6-12.

JPRS 16704

A Two-Stage Air-Breathing Thermodrill for
Drilling Rock Without the Use of Oxygen, by
I. P. Goldayev, Ye. P. Polevichek, et al,
6 pp.
RUSSIAN, per, Shakhtnoye Stroitel'stvo, No 11,
1962, pp 4-6.

JPRS 16962

USSR
Economic (Contd)

Improvement of the Wage and Premium Payment Systems, by C. Shkurko, A. Arkhipov, 17 pp.
RUSSIAN, per, Sotsialisticheskii Trud, No 9, 1962, pp 126-132.

JPRS 16970

At the State Committee on Labor and Wage Questions of the Council of Ministers of the USSR and the All-Union Central Council of Trade Unions, 5 pp.
RUSSIAN, per, Sotsialisticheskii Trud, No 9, 1962, pp 148-149.

JPRS 16970

Theoretical Conference at the Institute of Labor, 9 pp.
RUSSIAN, per, Sotsialisticheskii Trud, No 9, 1962, pp 149-151.

JPRS 16970

The Problems of the Agricultural Machinery Designers Due to the General Lack of Coordination, by Va. Yevin'sh, 5 pp.
RUSSIAN, np, Sovet Latviya, 9 Oct 1962.

JPRS 17139

Urgent Problems of Organizing Industrial Production in the Republic, by D. Ton, 5 pp.
RUSSIAN, np, Sovet Moldaviya, 19 Sep 1962.

JPRS 16914

Kemerovo Vagaries: Wasted Resources and Worthless Planning, by F. Artamonov, 6 pp.
RUSSIAN, np, Sovet Rossiya, 11 Nov 1962.

JPRS 16970

Soviet 8-Millimeter Movie Cameras, by V. Vorob'yev, P. Pesnopevtsev, et al, 6 pp.
RUSSIAN, per, Sovetskoye Foto, No 10, Oct 1962, pp 30-33.

JPRS 17160

Soviet Firms in the System of Industrial Management, by F. F. Kovalenko, 11 pp.
RUSSIAN, per, Sovetskoye Gosudarstvo i Pravo, No 11, Nov 1962, pp 49-56.

JPRS 17013

Improvement in the Selection and Training of Scientific Workers, by I. G. Kochergin, A. M. Shishova, 6 pp.
RUSSIAN, per, Sovetskoye Zdravo-Okhraneniye, No 9, 1962, pp 4-8.

JPRS 16827

Expedite the Opening of New Cement Plants, 5 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 9 Sep 1962, p 1.

JPRS 16778

USSR

Economic (Contd)

An Exhibition of Self-Propelled Construction and Road-Building Machines in Moscow, by A. S. Selenevich, 19 pp.

RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No 11, 1962, pp 3-9.

JPRS 16962

Building Materials and Components in the New Edition of the Construction Code, by L. I. Lopovok, 8 pp.

RUSSIAN, per, Stroitel'nyye Materialy, No 9, 1962, pp 20-21.

JPRS 16778

On the Role and Tasks of the All-Union Lighting Engineering Institute, by T. K. Glazunov, S. G. Yurov, 13 pp.

RUSSIAN, per, Svetotekhnika, No 11, 1962, pp 3-9.

JPRS 17094

Newly Developed Electric Lighting Fixtures, by E. S. Rozental', 5 pp.

RUSSIAN, per, Svetotekhnika, No 11, 1962, pp 28-30.

JPRS 17094

The Status of Motion-Picture Equipment Production in the USSR, by I. B. Gordiyuchuk, 29 pp.

RUSSIAN, per, Tekhnika Kino i Televideniya, No 9, 1962, pp 3-19.

JPRS 16833

Analogy of Characteristics of Reproduction in Television and Photography, by S. B. Gurevich, 24 pp.

RUSSIAN, per, Tekhnika Kino i Televideniya, No 11, 1962, pp 5-15.

JPRS 16930

Problem Number I - Dependability, by A. I. Berg. RUSSIAN, per, Tekhnika Molodezhi, No 10, 1960, pp 7-10.

*FTD-TT-63-40

Fundamental Methods of Economizing Fuel in Power Systems, by A. S. Gorshkov, 7 pp.

RUSSIAN, per, Teploenergetika, No 10, 1962, pp 2-9.

JPRS 16826

What Blocks Should We Use in the Development of Our Electric Power Installations, by Yu. N. Flakserman, 11 pp.

RUSSIAN, per, Teploenergetika, No 11, 1962, pp 37-40.

JPRS 16843

The Universal Self-Propelled Chassis With Set of Mounted Machines, by Kh. I. Izakson, 8 pp.

RUSSIAN, per, Traktory i Sel'khoz mashiny, No 10, 1962, pp 16-18.

JPRS 16974

The Past, Present, and Future of the Building Materials Industry, by Z. Loginov, 6 pp.

RUSSIAN, np, Trud, 15 Sep 1962, p 2.

JPRS 16778

USSR

Economic (Contd)

New Roads to New Techniques, by P. Zadorogin, 5 pp.
RUSSIAN, np, Trud, 10 Oct 1962.

JPRS 16871

The Most Important Thing is to Raise the Productivity
of Labor, by V. Kavalera, 5 pp.
RUSSIAN, np, Trud, 27 Oct 1962.

JPRS 16970

The Piece-Rate and Premium Wage System on the
State Farms, by V. S. Zakladnoy, 11 pp.
RUSSIAN, per, Uchet i Finansy v Kolkhozakh i
Sovkhozakh, No 6, 1962, pp 51-55.

JPRS 16705

Aide to the Economics of Kolkhozes and Sovkhozes
in Accounting Procedures by Production Adminis-
trations, by V. G. Sharfshteyn, 5 pp.
RUSSIAN, per, Uchet i Finansy v Kolkhozakh i
Sovkhozakh, No 10, 1962, pp 32-34.

JPRS 16977

Recommendations Made by the Ministry of Finances
USSR for Accounting in Sovkhozes and Other
Agricultural Enterprises, 6 pp.
RUSSIAN, per, Uchet i Finansy v Kolkhozakh i
Sovkhozakh, No 10, 1962, pp 58-60.

JPRS 16977

The Automation of Rural Electric Grids, by
N. M. Zul', 6 pp.
RUSSIAN, per, Vest Electronrom, No 9, 1962,
pp 3-7.

JPRS 16771

Problems in the Cooling of Electrical Machinery,
by M. I. Zemlyanoy, V. V. Mal'tsev, 6 pp.
RUSSIAN, per, Vest Elektroprom, No 11, 1962,
pp 1-4.

JPRS 16771

The First Inter-Branch Balance of Labor
Input for the National Economy of the USSR,
by M. Eydel'man, 21 pp.
RUSSIAN, per, Vest Statistiki, No 10, 1962,
pp 3-17.

JPRS 16871

Indicators of Labor Mechanization, by
Yu. Zinov'yev, 7 pp.
RUSSIAN, per, Vest Statistiki, No 10, 1962,
pp 48-51.

JPRS 16871

A Timely Book on Balance of Kolkhoz Labor
Resources, by B. Miroschnichenko, M. Sonin,
9 pp.
RUSSIAN, per, Vest Statistiki, No 10, 1962,
pp 69-72.

JPRS 16871

USSR
Economic (Contd)

Selected Articles From the Russian Periodical
Voprosy Ekon.

No 5, 1962, pp 80-85. JPRS 16946
Compiling and Analyzing a Consumption Model,
by L. Mints, V. Shvyrkov, 10 pp.

No 9, 1962, pp 20-30. JPRS 17067
Over-All Development of the Integrated
Transport System of the USSR, by
T. Khachaturov, 18 pp.

No 10, 1962, pp 75-86. JPRS 17018
Mathematical Methods for Optimal Location
of Enterprises in Multi-Stage Systems of
Production and Consumption, by V. Mash,
19 pp.

Utilize Rolling Stock More Efficiently,
11 pp.
RUSSIAN, per, Zheleznodorozhnyy Transport, No 10,
1962, pp 3-7. JPRS 17067

New Powerful Electric Locomotives, by S. N. Yelkin,
B. A. Tushkanov, 14 pp.
RUSSIAN, per, Zheleznodorozhnyy Transport,
No 10, 1962, pp 18-25. JPRS 17067

Political

Selected Articles From the Russian Periodical
Kommunist, No 18, 1962. JPRS 17177

Triumph of the Leninist Policy of Peaceful
Coexistence, 13 pp, (pp 12-19).

The Production Principle in Party Construction,
by N. Petrovichev, 16 pp, (pp 20-29).

The Development of Leninist Ideas on Party-
State Control, by V. Donskov, S. Ikonnikov,
17 pp, (pp 30-39).

A Creative Solution of Emergent Problems,
by B. Averchenko, 15 pp, (pp 51-59).

USSR
Political (Contd)

Press Interview With Soviet Makers of Memory
Device, by V. Kurochkin, 8 pp.
RUSSIAN, np, Literaturnaya Gazeta, No 131,
1 Nov 1962.

JPRS 16666

Construction of Communism and Planning,
21 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 10,
1962, pp 1-15.

JPRS 17018

Translation of the Pravda Editorial, 23 np.
RUSSIAN, np, Pravda, 7 Jan 1963.

JPRS 17088

Subject Matter of the Course Basic Principles
of Scientific Communism, by Ts. A. Stepanyan,
33 pp.
RUSSIAN, per, Voprosy Filosofii, No 6, 1962,
pp 25-35.

JPRS 16903

The New Man in the Communist Society,
by Ye. Ryabchikov, 29 pp.
RUSSIAN, per, Znamya, Vol XXXII, No 6, 1962,
pp 174-184.

JPRS 17065

Soviet Government's Note on the German Peace
Treaty and the Meeting of Heads of Governments,
2 Mar 1959, 6 pp.
FINNISH, rpt, Encl 2 to Desp A-374, AmEmbassy
Helsinki, 7 Nov 1962.

Dept of State

Russian Poet Evtushenko Reports on Interview
With Castro, by Eugene Evtushenko, 10 pp.
SPANISH, per, Revolucion, 29 Nov 1962, p 6.

JPRS 16983

Military

Soviet Textbook of Military Hygiene, by
Fedor Grigor'yevich Krotkov, 186 pp.
RUSSIAN, bk, Uchebnik Voennoy Gigieny, Moscow,
1962, pp 1-188.

JPRS 16929

Experiences From Comb as Against Bands, by Herbert Golz.
GERMAN, per, Wehrkunde, No 4, 1955, pp 134-140.

*519th MI Bn
I-8062
ID 2216550

Crisis Situation in the Rear of Army Group Center
at the Beginning of 1942, by Hans Reinhardt.
GERMAN, per, Wehrkunde, No 4, 1955, pp 229-237.

*519th MI Bn
I-8062
ID 2216550

Partisan Combat in Central Russia, by
Hellmuth Kreidel.
GERMAN, per, Wehrkunde, No 4, 1955, pp 380-385.

*519th MI Bn
I-8062
ID 2216550

USSR
Geographic

Principles of the Regional Geology of the USSR,
Vol I. The European USSR and the Caucasus, by
Ye. M. Lazko, 45 pp.
RUSSIAN, rpt, Lvov State University Press, 1962.

MEB

Bulletin of the Moscow Society for Natural
Research, Geological Section, 410 pp.
RUSSIAN, bk, Byulleten' Moskovskogo
Obshchestva Ispytatelei Prirody, No 4, 5, 6,
1956.

OTS 61-11402/4-6
PL-480

Chusovoy - City of Ural Metallurgists, by
I. I. Spekhov, 31 pp.
RUSSIAN, bk, Chusovoy, Perm', 1958, pp 1-76.

JPRS 16847

Magadan, by Marianna Gul'binskaya, 5 pp.
RUSSIAN, bk, Dal'niy Vostok, Vol III, 1959,
pp 159-166. (Call No AP50 D27)

Army Map Service

The Donbass, by V. P. Zamkovoy, 87 pp.
RUSSIAN, bk, Donbass, Moscow, 1962, pp 9-12,
69-126.

JPRS 16737

City of Gomel', by S. Lebedev, 29 pp.
RUSSIAN, bk, Gomel', Minsk, 1962, pp 116-159.

JPRS 17035

The Port of Nagayevo, by S. V. Slavin, 5 pp.
RUSSIAN, bk, Problemy Razvitiya Proizvoditel'nykh
Sil Magadanskoy, 1961, pp 257-260. (Call No
HC 337 M1 U48)

Army Map Service

Guide Around Vladivostok, by S. N. Nikolayev,
27 pp.
RUSSIAN, bk, Putevoditel' no Vladivostoku, 1960,
pp 3-72. (Call No Despatch No 207-61)

Army Map Service

The Second Birth of a Town, by
Georgiy Georgiyevich Khaliletskiy, 5 pp.
RUSSIAN, bk, Vtoroye Rozhdeniye Goroda, 1961.
(Call No L.C. DK 781)

Army Map Service

Experimental Planning of Residential Units
in the Regions of Extreme North, by Yr. Adamshvili,
K. Zimina, 6 pp.
RUSSIAN, per, Arkhitektura SSSR, 1961, pp 35-38.
(Call No IIA6 A67)

Army Map Service

Occurrence of a New Genus of Bryozoans in the
Upper Carboniferous of the Don River, by
I. P. Morozova.
RUSSIAN, per, Dok Ak Nauk SSSR: Paleontologiya,
No 3, 1955, pp 567-569.

Dept of Interior
QE3 E57 No 104

USSR

Geographic (Contd)

Atlas of USSR, by F. M. Kozlov.

RUSSIAN, per, Geodeziya i Kartografiya, No 8, 1962, pp 65-68.

*FTD-TT-62-1906

Conference of the Siberian Topographers, by D. A. Fialkov, 7 pp.

RUSSIAN, per, Geologiya i Geofizika, No 8, 1962, pp 133-134.

JPRS 16729

Geographical Zones in the Pelagial of the Central Pacific Ocean, by V. G. Bogorov.

RUSSIAN, per, Trudy Inst Okeanologii, Ak Nauk SSSR, Vol XLI, 1960, pp 8-16.

Dept of Interior
GC1 E57 No 20

Sociological

Conclusions From Alkogolism, by A. A. Portnov, 14 pp.

RUSSIAN, bk, Alkogolism, 1962, pp 196-209.

JPRS 17066

What are the "Sacred Books"?, by Giler Markovich Iivshits (DC-8351).

RUSSIAN, bk, Chto Takoye "Svyashchennyye Knigi"? Minsk, 1962, pp 1-80.

*JPRS

The Youthful Forces in our Literature, by V. Kozhevnikov, 12 pp.

RUSSIAN, per, Kommunist, No 17, 1962, pp 66-72.

JPRS 16971

Joint Work of Teacher and Class Advisor in Elementary Boarding-School Grades, by F. Pis'menskiy, 9 pp.

RUSSIAN, per, Narodnoye Obrazovaniye, No 7, 1962, pp 63-65.

JPRS 16906

Automata Are Parasites and Hard Workers, by Ye. Temchin, 5 pp.

RUSSIAN, per, Ogonyek, No 44, 28 Oct 1962, p 14.

JPRS 17039

The Resolution of the All-Union Conference on Philosophical Problems Concerning the Physiology of Higher Nervous Activity and Psychology, 7 pp.

RUSSIAN, per, Sovetskoye Zdravookhraneniye, No 9, 1962, pp 9-14.

JPRS 16827

USSR

Sociological (Contd)

Public Inspection of Fulfillment of Plans
for Scientific and Technical Research Work
and Achievements, 10 pp.

RUSSIAN, per, Ugol', No 7, Jul 1962, pp 62-64.

JPRS 16964

Philosophical Problems on the Essence of Life,
by B. F. Semkov, 6 pp.

RUSSIAN, per, Vest Ak Nauk SSSR, Vol XXXII,
No 10, 1962, pp 105-108.

JPRS 17034

Methods of Generalizing Reported Data on
Population Morbidity, by M. Ya. Kassatsiyer,
12 pp.

RUSSIAN, per, Zdravookhraneniye Rossiyskoy
Federatsii, No 9, 1962, pp 44-48.

JPRS 16724

Biographic

Biographies From the Great Soviet Encyclopedia,
1960, 38 pp.

RUSSIAN, bk, Yezhegodnik Bol'shoi Sovetskoy
Entsiklopedii, Chast'XII, Biograficheskiye
Spravki, Part XII, Moscow, 1960/1961.

JPRS 17019

Short-Ears and Long-Ears on Easter Island, by
N. A. Butinov, 13 pp.

RUSSIAN, per, Sovet Etnografiya Ak Nauk SSSR,
No 1, 1960, pp 72-82. 9201015

OTS 61-31223
PL-480

EASTERN EUROPE

Economic

Basic Directions in the Development of the Electrical Power Network of Bulgaria, 5 pp. BULGARIAN, per, Elektroenergiya, No 9, 1962, pp 1, 2.

JPRS 16875

Problems of State Receipts, by Ninko Stefanov, 8 pp. BULGARIAN, per, Financi i Kredit, No 7, Sep 1962, pp 8-15.

JPRS 17036

Selected Articles From the Bulgarian Periodical Ikonomicheska Misul, No 8, 1962.

Problems of the Comprehensive Plan in Bulgaria, 1961-1980, 14 pp, (pp 3-15).

JPRS 16941

The Main Economic Task of the Bulgarian People, by Zhak Aroyo, 15 pp, (pp 16-29).

JPRS 17036

Bulgarian Agricultural Development 1961-1980, by Slavi Neshev, 26 pp, (pp 45-57).

JPRS 16851

Improving the System of Supplementary Material Incentives for Economic Managers, Engineers, and Technicians, by Mikhail Petev, 19 pp, (pp 58-68).

JPRS 16861

The Importance of the Decree on the Improvement of the Relationship Between Agricultural Procurement Prices and the Material Interest of Cooperative Members, by Rashko Draganov, 21 pp, (pp 69-79).

JPRS 16861

Bulgaria's Place in Agricultural Development in the Balkans, by M. Minkov, 29 pp, (pp 90-102).

JPRS 16861

An Excerpt From the Decree No 168 by the Council of Ministers of 16 October 1962 Concerning the Improvement of Organization, Management and Control of the Water Economy, 9 pp. BULGARIAN, per, Iz Na Prezidiuma Na Narodnoto Subranie, No 86, 26 Oct 1962, pp 1, 2.

JPRS 16742

Future Land Improvement Construction, 10 pp. BULGARIAN, per, Khidrotehnika i Melioratsii, Vol VII, No 6, 1962, pp 161-162.

JPRS 16957

What the Organizational Structure of the Water Economy Should be, by Stancho Cholakov, 19 pp. BULGARIAN, per, Khidrotehnika i Melioratsii, Vol VII, No 6, 1962, pp 163-166.

JPRS 16957

Eastern Europe
Economic (Contd)

Successes of Bulgaria's Industry in the Fifteen Years Since Nationalization, by Evg. Iliev, 9 pp.
BULGARIAN, per, Khranitelna Promishlenost, No 9, 1962, pp 4-6.

JPRS 17208

Selected Articles From the Bulgarian Periodical Naruchnik na Agitatora.

No 33, Sep 1962, pp 8-19.

JPRS 17126

Agricultural Procurement Prices and Expanded Reproduction in the TKZS'S (Cooperative Farms), by Iliya Iliev, 11 pp.

No 35-36, Sep 1962.

JPRS 17237

Eliminating the Difference Between Cities and Villages in Bulgaria, by Geno Tsonkov, 7 pp, (pp 40-50).

The Role of Material Interest in the Building of Socialism, by Dyanko Furtunov, 7 pp, (pp 51-63).

No 37, Oct 1962, pp 8-20.

JPRS 17237

Cost and Price Formation Under Socialism, by Toncho Trendafilov, 7 pp.

No 38, Oct 1962, pp 22-31.

JPRS 17236

Bulgaria in the Family of Socialist Countries, by Petur Topchiev, 6 pp.

Some Problems in the Territorial Distribution of Production Forces in Bulgaria in 1961-1980, by P. Enev, 21 pp.

BULGARIAN, per, Novo Vreme, No 10, 1962, pp 27-48.

JPRS 17036

Selected Articles From the Bulgarian Periodical Planovo Stopanstvo i Statistika.

No 8, 1962.

JPRS 16679

Use of Bank Loans for Financing Capital Investments in the State Sector of the National Economy, by Neycho Gugovski, 11 pp, (pp 3-13).

Bases for Life Insurance, by Khr. Draganov, B. Kremidchiev, 12 pp, (pp 51-61).

No 9, 1962.

JPRS 16845

Problems in Production Expansion in the 1961-1980 Period, by Grudi Zhelev, 15 pp, (pp 16-31).

Capital Investments and Some Problems in Production Expansion, 1961-1980, by Todor Angelov, Ivan Rusimov, 10 pp, (pp 32-41).

Eastern Europe
Economic (Contd)

Contractual Discipline and Turnover in Current Assets Funds, by Dafin Doynov, 5 pp.
BULGARIAN, per, Schetovodstvo i Kontrol, No 6, Aug 1962, pp 12-16.

JPRS 16820

Scientific Conference on Selection Methods, by P. Konishev, 17 pp.
BULGARIAN, per, Selskostopanska Nauka, Vol I, No 9, Oct 1962, pp 1009-1014.

JPRS 16861

General Plan and Problems of Capital Investments, by Kiril G. Zanev, 6 pp.
BULGARIAN, per, Stroitelstvo, No 5, Sep-Oct, 1962, pp 1-3.

JPRS 17121

The Training of Engineering and Technical Personnel in the Fundamentals of Electrical Engineering in Higher Technical Educational Institutions, by Khristo Butsev, 15 pp.
BULGARIAN, np, Tekhnicheskoe Delo, 6 Oct 1962, p 2.

JPRS 16681

Selected Articles From the Bulgarian Periodical
Trud i Tseni.

No 7, 1962.

JPRS 16679

Improvement of the Price System - An Important Condition for Development of the Economy, 6 pp, (pp 1-6).

International Socialist Division of Labor, by St. Sharenkov, St. Shalamanov, 12 pp, (pp 17-27).

No 8, 1962.

Remuneration in Industry on the Basis of Collective Results Achieved, by Simeon Radev, 15 pp, (pp 36-47).

JPRS 17208

The Slump in Raw Materials Prices and Their Effort on Underdeveloped Foreign Producers, by Asen Chakalov, 13 pp, (pp 60-66).

JPRS 17236

Planning of Exports by Okrugs, by Mino Mitov, 8 pp.
BULGARIAN, per, Vunshna Turgoviya, No 10, 1962, pp 4-8.

JPRS 16819

Eastern Europe
Economic (Contd)

The Function of the Market and the Plan in the Socialist Economy, by Radivoje Uvalic, 13 pp.
CROATIAN, per, Ekonomist, No 2, Apr-Jun 1962, pp 205-215.

JPRS 16820

Development of Transportation and of the Economy in the Backward Areas of Yugoslavia, by Mihailo Aleksic, 21 pp.
CROATIAN, per, Ekonomist, No 2, Apr-Jun 1962, pp 279-297.

JPRS 16820

Selected Articles From the Croatian Periodical Finansije.

No 4-5, 1962.

The Social Plans of the Republics in 1962, by Milentje Pesakovic, 26 pp, (pp 189-208).

JPRS 16679

Issuance of Money by Business Banks, by M. Vesnic, 9 pp, (pp 227-234).

JPRS 16679

The Yugoslav Balance of Trade in Other Aspects of Trade Than Commodity Trade, by M. P., 10 pp, (pp 234-241).

JPRS 16819

Crediting the Series-Production of Domestic Equipment, by Vojislav Kostic, 12 pp, (pp 242-251).

JPRS 16679

No 6-7, 1962, pp 361-370.

The Use of Housing Construction Resources in 1961, by Mihailo Stamatovic, 15 pp.

JPRS 16959

Selected Articles From the Croatian Periodical Glasnik Poljoprivrednih i Zadruznih Organizacija.

No 12, 1962.

New Economic Conditions for Management of Agriculture, by Stevan Mihailovic, 11 pp, (pp 3-6).

JPRS 17152

The Advantages and Disadvantages of Merging of Cooperatives, by B. Sekularac, 10 pp, (pp 15-18).

No 13, 1962.

Conditions for Profitable Operation and Socialization of Land and Production Process, by B. Sekularac, 10 pp, (pp 7-10).

JPRS 17213

The Problems and Prospects in Further Expansion of the Socialized Land Area, by T. Milenkovic, 10 pp, (pp 11-14).

Eastern Europe
Economic (Contd)

Development of the Plastics Industry With Special Reference to Plastic Containers, by Kosta Stojic, 15 pp.

CROATIAN, per, Hemijaska Industrija, No 12, Dec 1962, pp 2349-2355.

JPRS 17198

Organizational Principles of the People's Technology Organization, 6 pp.

CROATIAN, per, Jugoslovensko Pronalazastvo, No 32, 1962, pp 22-24.

JPRS 16679

Business Cooperation in the Economy, by Vinko Hafner, 11 pp.

CROATIAN, per, Komuna, No 9, Sep 1962, pp 2-6.

JPRS 16820

Nature and Causes of Localism, by Veselin Djuranovic, 10 pp.

CROATIAN, np, Komunist, Vol XX, No 286, 18 Oct 1962, p 8.

JPRS 16756

Economic Relations Between Socialist Bloc Countries and the Underdeveloped Part of the World, by D. Arsic, 18 pp.

CROATIAN, per, Medjunarodni Problemi, No 1, Jan-Mar 1962, pp 73-87.

JPRS 17113

Development of Yugoslav Merchant Marine and Ports, 22 pp.

CROATIAN, per, Medjunarodni Transport, No 10, 1962, pp 681-688.

JPRS 17138

The Use of Railroads and Rivers in International Combined Transit in Yugoslavia, by D. Petrasinovic, 14 pp.

CROATIAN, per, Medjunarodni Transport, Vol VIII, No 10, 1962, pp 714-717.

JPRS 17138

The Transferral of Rental Rights, by Hazim Muftic, 13 pp.

CROATIAN, per, Narodna Uprava, No 9-10, 1962, pp 399-402.

JPRS 16959

Organizational Changes in the Federal Executive Council and Federal Administration, by

M. Vuckovic, 8 pp.

CROATIAN, per, Nova Administracija, No 6, 7, 1962, pp 490-495.

JPRS 16679

Eastern Europe
Economic (Contd)

Problems in Integration of Agriculture and Industry, by Milos Bogdanovic, 35 pp.
CROATIAN, per, Poljoprivreda i Zadrugarstvo, Vol IX, No 10, 1962, pp 2-7. JPRS 17214

Production and Turnover of Agricultural Products, 7 pp.
CROATIAN, per, Poljoprivreda i Zadrugarstvo, Vol IX, No 10, 1962, pp 32-33. JPRS 17214

Position of the Transoceanic Shipping After the Establishment of a Single Economic Chamber, 10 pp.
CROATIAN, per, Pomorstvo, Vol XVII, No 9, 10, Sep, Oct, 1962, p 281. JPRS 16959

Development of General Agricultural Cooperatives From 1957 to 1960 With Regard to Productivity, Economy and Profitability of Operations, by Dusanka Mrkic, 47 pp.
CROATIAN, per, Produktivnost, Vol IV, No 10, Oct 1962, pp 583-590. JPRS 17045

Some Problems of the Villages and Peasant Farms, by Slavko Komar, 84 pp.
CROATIAN, per, Socijalizam, Vol V, No 5, Sep, Oct 1962, pp 17-79. JPRS 17213

Changes in the Organization of Srez Administration, by Vlastimir Stamenovic, 15 pp.
CROATIAN, per, Uprava, No 8, 1962, pp 405-414. JPRS 17100

Changes in the Organization of the Executive Council of the Croatian National Assembly and of the Republic Administrative Organs, by B. Paja, 9 pp.
CROATIAN, per, Uprava, No 8, 1962, pp 414-420. JPRS 17100

Development of the Mechanism of Internal Distribution, by Drago Bozic, 14 pp.
CROATIAN, per, Uprava, No 8, 1962, pp 420-430. JPRS 17100

The Construction of New Facilities in the Cellulose Industry, 5 pp.
CROATIAN, per, Vesnik Jugoslovenske Investicione Banke, No 69, Sep 1962, pp 5, 6. JPRS 16959

Eastern Europe
Economic (Contd)

Selected Articles From the Czech Book
Zemepis Ceskoslovenska, 1960.

*ACSI I-8162
ID 2224733

Basic Outlines of Relief and Review of
Geological Development, (pp 25-133).

Water Systems, (pp 164-194).

Importance of the Chemical Works in Sala
for Czechoslovak Agriculture, by Pravdomil Kadlas,
6 pp.
CZECH, per, Agrochemikalie, Vol II, No 4, 1962,
pp 78, 79.

JPRS 17126

Socialist Principles of Transportation
Management, by Josef Slechta, 11 pp.
CZECH, per, Doprava, No 10, 1962, pp 329-332.

JPRS 17093

Selected Articles From the Czech Periodical
Finance A Uver.

No 9, 1962, pp 515-524.
The Insolvency of Enterprises -- an Indicator
of Shortcomings in Plan Fulfillment, by
Ladislav Bakalar, 13 pp.

JPRS 16845

No 10, 1962.
Strengthening Central Management and the
Work of Financial Organs, by Miroslav Koudelka,
13 pp, (pp 577-).

JPRS 17121

Decentralized Construction in 1963, by
Ladislav Kropac, 11 pp, (pp 584-590).

International Comparison of Production Costs
of Industrial Products, by Frantisek Michalec,
12 pp, (pp 604-612).

Standardization of Petroleum Asphalts, by
Vaclav Benes, 6 pp.
CZECH, per, Normalizace, Vol X, No 11, Nov 1962,
pp 300-302.

JPRS 17198

Consumption of Motor and Compressor Oils in the
Czechoslovak Economy, by V. Husner, 10 pp.
CZECH, per, Ropa a Uhlie, Vol IV, No 10, 1962,
pp 289-291.

JPRS 16789

Eastern Europe
Economic (Contd)

Discussion of Highway Transportation and Management in the Light of the Upcoming Twelfth Czechoslovak Communist Party Congress, 5 pp.

CZECH, per, Silnicni Doprava, Vol X, No 9, Sep 1962, pp 1, 2.

JPRS 16743

Investment Construction in Communications, by Frantisek Hurta, 9 pp.

CZECH, per, Spoje, Vol VII, No 10, Oct 1962, pp 4-6.

JPRS 17093

The Warsaw Conference on Economics and Organization of Production and Labor, by Gert Kunter, 6 pp.

GERMAN, per, Arbeit und Sozialfuersorge, Vol XVII, No 20, 1962, pp 467-470.

JPRS 16696

Introduction of Best-Time Catalogues, and Further Development of Best Times, by Wilhelm Hiech, Wolfgang Nimz, 8 pp.

GERMAN, per, Arbeit und Sozialfuersorge, No 21, Nov 1962, pp 479-483.

JPRS 17229

Export-Import Coordination in Preparing Plans, by K. Gulle, 5 pp.

GERMAN, per, Der Aussenhandel, No 18, 23 Sep 1962, pp 18, 19.

JPRS 16842

Selected Articles From the German Periodical Der Aussenhandel und der Innerdeutsche Handel.

No 18, Sep 1962, pp 8-11.

JPRS 16842

In Favor of Normal Trade Relations With West Germany and West Berlin, by Clemens, 6 pp.

No 20, Oct 1962, pp 3, 6;

No 21, Nov 1962, pp 17-20.

JPRS 17002

Basic Principles of International Socialist Division of Labor and the Shaping of the East German National Economy, by R. Brauer, W. Kunz, 19 pp.

No 21, Nov 1962.

JPRS 17002

Complete Fulfillment of the 1962 Foreign Trade Plan and Safeguarding the Start of the 1963 Plan, by Erich Renneisen, 5 pp, (pp 1, 2).

Development of Economic Relations Between East Germany and Poland, by H. Grundman, 9 pp, (pp 21-23).

Eastern Europe
Economic (Contd)

Strengthening the Economic Foundation of the
GDR Through Socialist Team Work, by Hans Krusche,
11 pp.
GERMAN, per, Bergbautechnik, Nov 1962, pp 561-563.

JPRS 17166

Selected Articles From the German Periodical
Deutsche Finanzwirtschaft.

No 19, 1962.
Local Councils and the State Budget, by
Horst Buticher, 14 pp, (pp S2-S5).

JPRS 16725

Measures Against Uncompleted Investments
and Against Fragmentation of Funds, by
K. Maier, G. Wagner, 13 pp, (pp 3-5).

No 20, 15 Oct 1962.
Successes in the Wage Fund Control, by
Walter Gunther, 11 pp, (pp G1-G4).

JPRS 16696

Some Thoughts on Financing LPG's, by
Klaus Damman, 9 pp, (pp 14, 15).

JPRS 17068

No 21, Nov 1962, pp 5-8.
The Socialist World System and International
Socialist Financial Relations, by Hans Spiller,
8 pp.

JPRS 17113

No 22, Nov 1962, pp 7-9.
Developing Profit Into an Index Figure for
Economic Activities, by Horst Grosseohme,
8 pp.

JPRS 17017

Payment for Work According to the Amount of Pro-
duction in LPG Field Work and the Material
Participation in the Performance of the Live-
stock Industry, by F. Marx, 15 pp.
GERMAN, per, Die Deutsche Landwirtschaft, No 11,
1962, pp 525-528.

JPRS 16742

Goals and Methods of Expanding Sheep Holdings in
the GDR, by A. Rucholtz, 11 pp.
GERMAN, per, Die Deutsche Landwirtschaft, No 11,
1962, pp 549-553.

JPRS 16742

Does the System of Economic Accounting Meet
Present Demands, by Karl-Heinz Jonuscheit,
14 pp.
GERMAN, per, Einheit, Vol XVII, No 10, 1962,
pp 8-19.

JPRS 16883

Eastern Europe
Economic (Contd)

Application of the Forms of Wages Must be Economically Correct, by Ernst Mader, Arnold Knauer, 9 pp.
GERMAN, per, Einheit, Vol XVII, No 10, 1962, pp 34-42.

JPRS 16883

Modernizing the Freight Rolling Stock on German Railways, by Johann Schinke, 21 pp.
GERMAN, per, Eisenbahn Technische Rundschau, No 5, 1962, pp 199-214.

ACSI I-3044
ID 2211684

Evaluation of the E 11 Electric Locomotive, by Fritz Borchert, 6 pp.
GERMAN, per, Fahrt Frei, No 43, 23 Oct 1962, p 6.

JPRS 16799

More Efficient Operation in Reichsbahn Directorate Dresden, by Gunther Knobloch, 5 pp.
GERMAN, per, Fahrt Frei, No 49, 4 Dec 1962, p 3.

JPRS 17093

Fulfillment of the 1962 Trade Plan and a Good Start for the 1963 Trade Plan, by Ruth Baumann, 10 pp.
GERMAN, per, Der Handel, Vol XII, No 9, 1962, pp 385-387.

JPRS 17108

Role and Tasks of the Main Directorate of the HO, by Egon Nagel, 10 pp.
GERMAN, per, Der Handel, Vol XII, No 9, 1962, pp 388-390.

JPRS 17108

On the Economic Efficiency of Investment Activity in Retail Trade, by Horst Winter, 9 pp.
GERMAN, per, Der Handel, Vol XII, No 9, 1962, pp 395-397.

JPRS 17108

Electrification of the Railroads of the Socialist Countries, 9 pp.
GERMAN, per, Markt Informationen den Aussenhandel, Vol VI, No 44, 3 Nov 1962, pp 1, 6.

JPRS 17108

The Hydraulic Equipment of the Ship Railway at the Stralsund Volkswerft Shipyard, by H. D. Hennig, 35 pp.
GERMAN, per, Maschinenbautechnik, Vol XI, No 10, 1962, pp 528-535.

JPRS 17051

How to Implement a Systematic Stockpiling Policy by Carl-Jurgen Strauss, 16 pp.
GERMAN, per, Material Wirtschaft, Vol X, No 18, Sep 1962, pp 1-4.

JPRS 16725

Eastern Europe
Economic (Contd)

Tasks of the Economic Council in the Management and Organization of Materials Supply, by Gerhard Steiner, 12 pp.
GERMAN, per, Material Wirtschaft, Vol X, No 18, Sep 1962, pp 8-11.

JPRS 16725

Economic Problems of Comprehensive Building of Socialism: Planning in a New Manner, by Johannes Rudolph, 6 pp.
GERMAN, np, Neues Deutschland, 27 Oct 1962, p 4.

JPRS 16696

Railroad Transit Traffic, East Germany -- Czechoslovakia, by Erich Preuss, 5 pp.
GERMAN, per, Der Operative Dienst, Vol VI, No 12, 1962, pp 411-412.

JPRS 17243

Reports on OSSHD Commission Work, 11 pp.
GERMAN, per, Organisation fur die Zusammenarbeit der Eisenbahnen, OSSHD, No 3, 1962, pp 24-28.

JPRS 17002

Reports From OSSHD Commissions, 13 pp.
GERMAN, per, Organisation fur die Zusammenarbeit der Eisenbahnen, OSSHD, No 5, 1962, pp 26-31.

JPRS 17002

International Socialist Cooperation in the Field of Tire Production, by A. Springer, 8 pp.
GERMAN, per, Plaste und Kautschuk, No 10, 1962, pp 465-466.

JPRS 16842

Development of the Use of Plastics in the Various Branches of Industry in East Germany, by W. Heintze, 15 pp.
GERMAN, per, Plaste und Kautschuk, No 10, 1962, pp 476-478.

JPRS 16753

Best-Quality Industrial Ceramics for the Electrical Industry, by Otto Hoppe, 7 pp.
GERMAN, per, Presse-Informationen, No 133, 12 Nov 1962, pp 4, 5.

JPRS 16989

Research Conducted by the Institute for Plant Breeding in Bornburg, by R. Kraushaar, 6 pp.
GERMAN, per, Presse-Informationen, No 145, Dec 1962, pp 7, 8.

JPRS 17214

The Highest Level of Technology is the Yardstick, 6 pp.
GERMAN, per, Saechsische Zeitung, 19 Oct 1962, p 3.

JPRS 16696

Eastern Europe
Economic (Contd)

Receipts of the East German State Budget,
by Franz Buss, 16 pp.
GERMAN, per, SBZ Archiv, No 20, Oct 1962,
pp 310-313.

JPRS 17229

Food Production According to the Demand, by
Fritz Lemke, 6 pp.
GERMAN, per, Sozialistische Demokratie,
16 Nov 1962, p 8.

JPRS 16872

New Methods Require Bold Development: Combined
Trade Enterprises for Fruits and Vegetables,
18 pp.
GERMAN, per, Sozialistische Demokratie,
16 Nov 1962, p 9.

JPRS 16991

Fundamentals for a Rational Distribution of
Agricultural Products, by Rosemarie Sachse,
Manfred Anders, et al, 24 pp.
GERMAN, per, Sozialistische Planwirtschaft,
No 11, 1962, pp 28-34.

JPRS 17068

Summarizing Indices Reflecting Agricultural
Production, by Ursula Lange, Berthold Thoms,
12 pp.
GERMAN, per, Statistische Praxis, No 11,
1962, pp 285-288.

JPRS 17126

Legal Problems Arising out of the Decree
on Investments, by Georg Freytag, 15 pp.
GERMAN, per, Vertragssystem, Vol VI, No 11,
1962, pp 325, 326.

JPRS 17017

Development of Construction Capacities in
the Field of Water Management, by K. Alhorn,
6 pp.
GERMAN, per, Wasserwirtschaft-Wassertechnik,
Vol XII, No 10, 1962, pp 421, 422.

JPRS 17108

Necessary Changes in the East German Price
System, by Hellmut Mann, 18 pp.
GERMAN, per, Wirtschaftswissenschaft, No 11,
1962, pp 1601-1614.

JPRS 16872

The Road of the Economically Underdeveloped
Countries Toward Relative Economic Independence,
by Heiner Winkler, 28 pp.
GERMAN, per, Wirtschaftswissenschaft, No 11,
Nov 1962, pp 1666-1678.

JPRS 16965

Eastern Europe
Economic (Contd)

Yugoslavia and the Developing Countries,
10 pp.

GERMAN, per, Wissenschaftlicher Dienst
Sudosteuroopa, Vol XI, No 9/10, 1962,
pp 105-110.

JPRS 16842

Development Trends in the Central German
Power Industry, 11 pp.

GERMAN, per, Wochenbericht, No 46, Nov 1962,
pp 200-202.

JPRS 16966

Prerequisites and Suitable Forms for Transition
From Type I LPG to Type II LPG and Contemporary
Tasks in Guiding This Developmental Process,

by H. Drescher, 13 pp.

GERMAN, per, Zeitschrift fuer Agrarökonomik,
No 11, 1962, pp 327-332.

JPRS 17152

On International Cooperation Between Socialist
Countries in the Field of Agriculture, by

C. Howitz, W. Munch, 9 pp.

GERMAN, per, Zeitschrift fuer Agrarökonomik,
No 11, 1962, pp 335-338.

JPRS 17152

Selected Articles From the German Periodical
Zeitschrift der Organisation fuer die
Zusammenarbeit der Eisenbahnen OSSHD.

No 1, 1962.

JPRS 16799

Results of the Four-Year Activity of the
OSSHD and its Committees, by H. Drazkiewicz,
17 pp, (pp 1-4).

Further Development of Collaboration Among
OSSHD Member Railroads in the Field of
Technical and Economic Information, by
Vilem Olsar, 9 pp, (pp 20-22).

No 2, 1962, pp 17-20.

JPRS 16842

Work of OSSHD Commissions, 9 pp.

No 3, 1962, pp 19-21.

JPRS 16959

Organization of Loading and Unloading
on the Loading Ramps of the East German
Railroad Stations, by W. Mieth, 8 pp.

No 5, 1962, pp 1-4.

JPRS 17002

The OSSHD Facing a New Phase in its Work,
by H. Draskivich, 7 pp.

Eastern Europe
Economic (Contd)

The Distribution, Concentration, and Dispersal of the Consumption and Availability of Fiber Wood and the Resulting Problems of Fiber-Wood Transportation in the GDR, by Werner Findeisen, 19 pp.

GERMAN, per, Zellstoffund Papier, Vol XI, No 11, 1962, pp 428-432.

JPRS 16966

The Productivity and Consumption of Social Labor, by Albert Racz, Laszlo Ujlaki, 6 pp.
HUNGARIAN, per, Figyelo, No 43, 24 Oct 1962, p 3.

JPRS 17208

Trend of the National Power Economy in 1961, 12 pp.
HUNGARIAN, per, Ipári Energiagazdalkodás, Vol III, No 9, 1962, pp 197-201.

JPRS 17108

The Second National Natural Gas Conference, 11 pp.
HUNGARIAN, per, Ipári Energiagazdalkodás, Vol III, No 10, 1962, pp 225-231.

JPRS 16789

Experiences of the Enterprise Consolidations in the Petroleum Industry, by Zoltan Veniss, 11 pp.
HUNGARIAN, per, Ipári és Építőipari Statisztikai Ertesito, Vol XIII, No 11, 1962, pp 404-410.

JPRS 17166

Enrichment and Selective Smelting of Laterital Iron Ores Containing Nickel, by Laszlo Visnyovszky, 15 pp.
HUNGARIAN, per, Kohászati Lapok, Vol XCV, No 10, 1962, pp 463-467.

JPRS 16893

Regulation of Specialization of Production of Certain Products of the Machine Industry, 40 pp.
HUNGARIAN, per, Köho és Gépipari Kozlony, Vol XII, No 43, Oct 1962, pp 329-339.

JPRS 16693

The Economic Cooperation of CEMA Countries and Perspectives of Development, by Sandor Ausch, 18 pp.
HUNGARIAN, per, Kozgazdasági Szemle, Vol IX, No 9, 1962, pp 1017-1030.

JPRS 16819

The Long-Range Planning of Research and Development Capacities, by Gyorgy Szakasits, 19 pp.
HUNGARIAN, per, Kozgazdasági Szemle, Vol IX, No 9, 1962, pp 1048-1061.

JPRS 16820

Eastern Europe
Economic (Contd)

Coordination and Cooperation Between the Motor Vehicles, Railroad, and Other Branches of Transportation, by Jeno Lender, 19 pp.
HUNGARIAN, per, Kozlckedesi Kozlony, Vol XVIII, No 43, 28 Oct 1962, pp 771-776.

JPRS 17163

Problems of Plan Price Formulation, by Sandor Jeney, 7 pp.
HUNGARIAN, per, Kulkereskedelem, Vol VI, No 9, 1962, pp 9-11.

JPRS 16976

Our Price System as Viewed by Foreign Trade, by Emil Vajda, 7 pp.
HUNGARIAN, per, Kulkereskedelem, Vol VI, No 9, 1962, pp 21-24.

JPRS 16976

Annual Foreign Trade Planning in Several Variants, by Andras Nagy, 12 pp.
HUNGARIAN, per, Kulkereskedelem, Vol VI, No 10, 1962, pp 18-21.

JPRS 17238

The First Hungarian Turnpike, by Sandor Jakab, 20 pp.
HUNGARIAN, per, Nelyepitestudományi Szemle, Vol XII, No 10, Oct 1962, pp 425-440.

JPRS 17138

Views on the Industrial Reorganization, by Istvan Szurdi, 5 pp.
HUNGARIAN, per, Muszaki Elet, Vol XVII, No 23, 8 Nov 1962, p 5.

JPRS 17051

Statistical Data on the 1961 Health Situation in Hungary, 54 pp.
HUNGARIAN, per, Nepegeszsegugy, Vol XLIII, No 8, 1962, pp 225-249.

JPRS 17086

Feasibility of the Use of Cybernetics at the Hungarian National Bank, by Lajos Acs, 8 pp.
HUNGARIAN, per, Penzugy es Szamvitel, No 9, 1962, pp 330-334.

JPRS 16941

The Relationship Between National Income and the State Budget in Hungary, by Sugar Gyorgy, 25 pp.
HUNGARIAN, per, Statisztikai Szemle, Vol XL, No 10, 1962, pp 1024-1039.

JPRS 17017

Centralized Production Goals in the Machine Tool Industry, by Ferenc Metka, Zoltan Bakk, 5 pp.
HUNGARIAN, per, Ujitok Larja, Vol XIV, No 20, Oct 1962, pp 3, 4.

JPRS 16989

Eastern Europe
Economic (Contd)

New Research Trends at the Heavy Chemical Industry Research Institute, by Gyorgy Koranyi, 5 pp.

HUNGARIAN, per, Ujitok Lapja, Vol XIV, No 20, Oct 1962, pp 11, 12.

JPRS 16989

Results of Tests and Trial Runs of a Prototype B-70 19,000-Ton Tanker, by Jerzy Paczesniak, Stefan Manitius, 11 pp.

POLISH, per, Budownictwo Okretowe, Vol VII, No 10, 1962, pp 322-326.

JPRS 16875

Shipbuilding Production in Socialist Nations After World War II, by Czeslaw Wojewodka, 15 pp.

POLISH, per, Budownictwo Okretowe, Vol VII, No 11, Nov 1962, pp 376-380.

JPRS 17179

Selected Articles From the Polish Periodical Ekonomista.

No 4, 1962, pp 782-796.

JPRS 16679

Use of Electronic Computers in the Management of the National Economy, by Tadeusz Jaegermann, Jozef Pajestka, 18 pp.

No 5, Nov 1962.

JPRS 16941

Developmental Tendencies of the World Socialist System, by Ignacy Rzedowski, 11 pp, (pp 998-1016).

Individual Farming and Socialist Planning in Poland, by Wiktor Herer, 16 pp, (pp 1016-).

On the Problem of Optimal Proportions, by Stanislaw G. Strumilin, 13 pp, (pp 1086-1101).

Problems of International Socialist Division of Labor, by Genadij Sorokin, 10 pp, (pp 1102-1110).

Directions of Research on the International Division of Labor, by Kazimierz Secomski, 5 pp, (pp 1111-1116).

Spatial Element in Economic Development Theory, by Pawel Sulmicki, 8 pp, (pp 1117-1124).

Fish Industry in First Six Months of 1962, 6 pp.

POLISH, per, Gospodarka Rybna, Vol XIV, No 7, Oct 1962, pp 30, 31.

JPRS 17152

Eastern Europe
Economic (Contd)

The Water Situation in Hungary as of 1960, by Jozef Fiszer, Boleslaw Liberadzki, 7 pp. POLISH, per, Gospodarka Wodna, No 9, 1962, pp 418-420.

JPRS 16893

Development of Food Service Network, by Tadeusz Solecki, 15 pp. POLISH, per, Handel Wewnetrzny, Vol VIII, No 4, Jul-Aug 1962, pp 41-51.

JPRS 17163

Economic Problems in Organizing the Agricultural Market, by Z. Krasinski, 11 pp. POLISH, per, Handel Wewnetrzny, Vol VIII, No 4, Jul-Aug 1962, pp 107-113.

JPRS 17211

Partners in Polish Foreign Trade, by Stanislaw Falkowski, 9 pp. POLISH, per, Handel Zagraniczny, No 9, 1962, pp 398-400.

JPRS 16819

The Foreign Trade Cooperative Commission With Domestic Suppliers and Recipients, by Boguslaw Muszynski, 5 pp. POLISH, per, Handel Zagraniczny, No 9, 1962, pp 401, 402.

JPRS 16819

Investigations on Lodging of Grain Varieties, by Halina Riegerowa, Krystyna Muszynska, 11 pp. POLISH, per, Hodowla Roslin Aklimatyzacja i Nasiennictwo, Vol I, No 4, 1957, pp 527-539. 9201020

OTS 61-31273
PL-480

Selected Articles From the Polish Periodical Nowe Rolnictwo, No 18, Sep 1962.

JPRS 17152

Results of Producer Cooperatives Dividing Income for 1961, by Marian Bajorek, 11 pp, (pp 9-11).

Changes in Structure of Farm Animals, by B. H., 5 pp, (pp 43, 44).

Eastern Europe
Economic (Contd)

Selected Articles From the Polish Periodical
Nowe Rolnictwo, No 18, Sep 1962. (Contd)

JPRS 17152

Agricultural Goods Procurement for First
Six Months of 1962, by Julian Kielichowski,
5 pp, (pp 44, 45).

Realization of Agricultural Development
Fund for First Six Months of 1962, by
T. W., 5 pp, (p 45).

Mineral Fertilizer Deliveries for Agri-
culture, by T. Wronka, 5 pp, (pp 54, 55).

Foreign Operations of Mister Cekop, by
Zygmunt Szeliga, 9 pp.
POLISH, per, Polityka, No 41(293), 13 Oct 1962,
pp 1, 4.

JPRS 16976

Description and Operational Results of New
Slag Raking Device Built in Poland, by
Stanislaw Gnojek, 5 pp.
POLISH, per, Problemy Projektowe, Vol X,
No 10, 1962, p 209-312.

JPRS 17051

Description of OPG-220 Coal-Dust and Gas
Boiler for Metallurgical Industry, by
Tadeusz Karski, Ryszard Gorlach, 6 pp.
POLISH, per, Przegląd, No 18, Sep 1962,
pp 571-573.

JPRS 16989

Program for Development of Consumers' Service,
by Jozef Dobrzeniecki, 8 pp.
POLISH, per, Przegląd Drobnej Wytworczosci,
No 18, Sep 1962, pp 1-3.

JPRS 17163

Small Scale Production in Long-Term Plan for
1961-1980, by Zdzislaw Mikolajczyk, 12 pp.
POLISH, per, Przegląd Drobnej Wytworczosci,
No 9, Oct 1962, pp 6-8.

JPRS 16799

Technical Progress Made in Polish Railroads
Maintenance Services, by Nikodem Bartczak,
17 pp.
POLISH, per, Przegląd Kolejowy Drogowy, No 9,
1962, pp 161-167.

JPRS 16799

Progress Made in Electric Traction to Konin,
8 pp.
POLISH, per, Przegląd Kolejowy Elektryczny,
No 10, 1962, p 321.

JPRS 16991

Eastern Europe
Economic (Contd)

Classification of Warships, by Z. B., 5 pp.
POLISH, per, Przegląd Morski, No 7, 8,
Jul-Aug, 1962, pp 55-60.

JPRS 16831

Employment Structure in Grain Milling
Industry, by Tadeusz Gonet, Tadeusz Zaleski,
22 pp.
POLISH, per, Przegląd Zbozowo-Młynarski, No 10,
1962, pp 287-291.

JPRS 16991

Railroad Repair Units Working on New Technical
Norms, by S. Pozniak, 6 pp.
POLISH, per, Sygnaly, Vol XIII, No 38, Sep 1962,
p 3.

JPRS 16991

Major Achievements in Technical Advancement and
New Technics in Black Coal Mines in 1961,
by Antoni Wasik, 11 pp.
POLISH, per, Wiadomości Gornicze, Vol XIII,
No 9, 1962, pp 289-294.

JPRS 16875

Causes of Grain Deficits in Poland, by
Henryk Olszewski, 20 pp.
POLISH, per, Zagadnienia Ekonomiki Rolnej,
No 5, Sep-Oct 1962, pp 93-106.

JPRS 16907

Agriculture in the CEMA Countries in 1951-1961,
by Artur Bodnar, Kalra Romanowa, 23 pp.
POLISH, per, Zagadnienia Ekonomiki Rolnej,
No 5, Sep-Oct 1962, pp 109-125.

JPRS 16907

Seasonal Production and Consumption of Food-
stuffs in Poland, by Włodzimierz Kaminski,
Maria Korolska, 13 pp.
POLISH, per, Zagadnienia Ekonomiki Rolnej,
No 5, Sep-Oct 1962, pp 126-134.

JPRS 16907

Selected Articles From the Polish Periodical
Zycie Gospodarcze.

No 39, Sep 1962.

JPRS 17045

Changes in Dynamics of Breeding, by
Jan Malkowski, 7 pp, (pp 1, 7).

Rural Manpower Reserves, by Kazimierz Miekus,
Edward Karniewski, et al, 9 pp, (p 6).

No 43, Oct 1962.

JPRS 17126

Feed Today -- Procurement Tomorrow, by
Gregorz Pisarski, 6 pp, (pp 1, 2).

Eastern Europe
Economic (Contd)

Selected Articles From the Polish Periodical
Zycie Gospodarcze. (Contd)

- No 43, Oct 1962. JPRS 17126
Potato Chaos, by Jerzy Kucharz, 6 pp,
(p 3).
- Family Amortization, by Anna Szenberg,
13 pp, (p 6).
- No 44, Nov 1962, pp 4, 5. JPRS 16669
Waste in Wood Materials, by
Wieslaw Szyndler-Glowacki, 7 pp.
- No 45, 11 Nov 1962, p 6. JPRS 16742
Specialization -- Prospects of the State
Farms. by Karol Szwarc, 10 pp.
- No 51/52, 23-30 Dec 1962, pp 1, 3. JPRS 17166
Trial Introduction of New Accounting
Intraplant System in Chemical Plants, by
Wladyslaw Dudzinski, 9 pp.
- Recommendations of the Central Institute for
Agricultural Research on Fall Ploughing, 11 pp.
RUMANIAN, per, Agricultura Noua, Vol VIII, No 888,
30 Oct 1962, pp 1, 3. JPRS 17068
- Automation of Crude Oil Extraction in Rumania, by
C. Evghenide, A. Ionascut, et al, 19 pp.
RUMANIAN, per, Automatica si Electronica, Vol VI,
No 4, Jul-Aug 1962, pp 137-145. JPRS 17166
- Disposition Regarding the Implementation of the
Operative Transport Plan, by Gheorghe Gava, 8 pp.
RUMANIAN, per, Buletinul Comercial CFR, Vol III,
No 17, Oct 1962, pp 285-289. JPRS 16959

Eastern Europe
Economic (Contd)

Selected Articles From the Rumanian Periodical Constructorul.

JPRS 17093

Vol XIV, No 670, 10 Nov 1962, pp 1, 2A.
Deficiencies in the Construction Materials Industry, 5 pp.

Vol XIV, No 671, 17 Nov 1962, pp 1, 2A.
More and Better Prefabricated Construction Materials for 1963, by Gabriel Furduescu, 5 pp.

Vol XIV, No 672, 24 Nov 1962.
Improving the Quality of Glass, by R. Tutoveanu, 6 pp, (p 1).

Aspects of Mechanization in the Construction Industry, by Gheorghe Serbanescu, 7 pp, (p 1).

Site Investigations and Laboratory Research in Support of Power Plant Construction, by Constantin Budeanu, 6 pp.
RUMANIAN, per, Energetica, Vol X, Oct 1962, pp 407-419.

JPRS 17198

Aspects of the Activities of Local Construction Organizations, by O. D. Klingher, I. Solomonovici, 15 pp.
RUMANIAN, per, Finante si Credit, No 9, 1962, pp 33-49.

JPRS 16743

Fulfillment of the Investment Plan in Rumania, by Ion Ratoiu, 12 pp.
RUMANIAN, per, Finante si Credit, No 10, Oct 1962, pp 15-28.

JPRS 17017

Realization of Budget Revenues as One of the Principal Tasks of the State Bank Units in Rumania, by Gheorghe Capetti, 8 pp.
RUMANIAN, per, Finante si Credit, No 10, Oct 1962, pp 29-39.

JPRS 17017

Modernization of the Food Canning Industry, by H. Pisan, 6 pp.
RUMANIAN, per, Industria Alimentara--Produce Vegetale, Vol XIII, No 9, 1962, pp 1-3.

JPRS 17243

Recent Achievements of the Food Research Institute, by I. Landauer, 10 pp.
RUMANIAN, per, Industria Alimentara--Produce Vegetale, Vol XIII, No 9, 1962, pp 263-266.

JPRS 17243

Eastern Europe
Economic (Contd)

Training of Agricultural Machine Operators, by
N. Bologan, 10 pp.
RUMANIAN, per, Mecazizarea si Electrificarea
Agriculturii, Vol VII, No 6, Nov - Dec 1962,
pp 1-5.

JPRS 17211

The 1963 Forestry Plan, by Alexandru Mos, 15 pp.
RUMANIAN, per, Muncitorul Forestier, Vol XIV,
No 446, No 447, 1962, pp 1, 4; pp 1, 3.

JPRS 16957

Increase of Labor Productivity in Forest Road
Projects, by V. Oprits, 5 pp.
RUMANIAN, per, Muncitorul Forestier, Vol XIV,
No 451, 22 Nov 1962, pp 1, 3-A.

JPRS 17152

Efficient Methods for the Economic and Technical
Consolidation of Collective Farms, by C. Lutas, 7 pp.
RUMANIAN, per, Probleme Agricole, Vol XIV, No 10,
1962, pp 75-80.

JPRS 16957

Selected Articles From the Rumanian Periodical
Probleme Economice, Vol XV, No 10, 1962.

The Development of Socialist Production Relations
During the Period of Completion of the Construction
of Socialism, by Gheorghe P. Apostol, 12 pp.
(pp 17-27).

JPRS 16872

Aspects of the Distribution and Redistribution
of the National Income, by Simion Taigar, 16 pp,
(pp 28-43).

JPRS 16872

The Economic Effectiveness of Technical and
Scientific Research, by Alexandru Ivancenco,
12 pp, (pp 44-56).

JPRS 16872

Perpetuation of Tractor Brigades as an
Important Condition for Improving the
Collaboration of SMT's and GAC's, by
Gr. Vilceanu, 36 pp, (pp 57-71).

JPRS 16742

Growth of Labor Productivity in State
Trade as an Important Method of Reducing
the Cost of Commodity Circulation, by
M. Stanescu, 16 pp, (pp 103-115).

JPRS 16743

Eastern Europe
Economic (Contd)

Rumanian Research on Fertilizers Mixed With
Micro-Elements, by S. Benari, V. Preda, et al,
5 pp.

RUMANIAN, per, Revista de Chimie, No 9, 1962,
pp 545, 547-550.

JPRS 17166

Developments in the Rumanian Petroleum Industry,
by C. Ludwig, 10 pp.

RUMANIAN, per, Wissenschaftlicher Dienst
Suedosteuropa, No 9/10, 1962, pp 117-119.

JPRS 16753

Tourist Traffic on Rumanian Railroads, by
E. Kurtow, 13 pp.

RUMANIAN, per, Zeitschrift der Organisation
fuer die Zusammenarbeit der Eisenbahnen,
No 2, 1962, pp 10-12.

JPRS 16799

Development of Socialist Slovakia, by
Karol Bacilek, 60 pp.

RUSSIAN, np, Pravda, 24 Nov 1962.

JPRS 16712

Yugoslav Trade Relations With the Adjoining
Nations, 11 pp.

SLOVENIAN, per, Vprasanja Nasih Dni, Vol III,
No 15, Sep 1962, pp 447-450.

JPRS 16819

Political

The Widening Front -- The Accusations Against
Yugoslavia are Increasing Again, 6 pp.

ALBANIAN, per, Relindja, Vol XVIII, No 1280,
21 Oct 1962, p 2.

JPRS 16806

The Speech of Comrade Enver Hoxha at the
Meeting With the Representatives of the
Intelligentsia of Tirane, by Enver Hoxha,
39 pp.

ALBANIAN, per, Rruga e Partise, Vol IX, No 11,
1962, pp 9-39.

JPRS 17060

The Ideas and Deeds of the Great October
Socialist Revolution are Immortal, by

Bajram Avdiu, 19 pp.

ALBANIAN, per, Rruga e Partise, Vol IX, No 11,
1962, pp 40-54.

JPRS 17060

Eastern Europe
Political (Contd)

Regulations Governing the Internal Order of the National Assembly of the Bulgarian People's Republic, by D. Ganev, N. Minchev, 17 pp.

BULGARIAN, np, Izvestiya na Prezidiuma na Narodnoto Subranie, No 97, 1 Dec 1962, pp 3-7.

JPRS 17140

The Historic Role of the Workers Class in the Advanced Capitalist Countries, 18 pp.
BULGARIAN, per, Novo Vreme, No 11, 1962, pp 58-72.

JPRS 16806

The Flames of a Purgative Fire, by Lyubonir Tenov, 10 pp.
BULGARIAN, per, Plamuk, No 10, 1962, pp 9-13.

JPRS 17050

Program for the Transition of Bulgaria From Socialism to Communism, by Gisha Filipov, 12 pp.
BULGARIAN, per, Planovo Stopanstvo i Statistika, No 9, Sep 1962, pp 3-15.

JPRS 16845

The Bulgarian Policy of Peaceful Coexistence, by Evgeniy G. Kamenov, 14 pp.
BULGARIAN, np, Rabotnichesko Delo, 20 Dec 1962, pp 3-4.

JPRS 17140

The Primary Task, by Vasil Kolevski, 6 pp.
BULGARIAN, per, Soptemvri, No 11, 1962, pp 153-157.

JPRS 17060

Yugoslavia and People's Republic of China, by P. D., 18 pp.
CROATIAN, per, Jugoslovenski Pregled, No 9, 1962, pp 373-378.

JPRS 17232

Speech of Ezeikiil Papaioannou, Cyprus Delegate at Twelfth Party Congress of Czechoslovak Communist Party, by Ezeikiil Papaioannou, 6 pp.
CZECH, np, Rude Pravo, 9 Dec, p 4.

JPRS 16888

Ulbricht's Party Describes Itself, by Ernst-Otto Maetzke 22 pp.
GERMAN, per, Frankfurter Allgemeine Zeitung, No 7, Jan 1963, p 11.

JPRS 17232

Eastern Europe
Political (Contd)

Directive of the Plenum of the GDR Supreme Court on the Issuance of Arrest Warrants and Arrest Investigation, 20 pp.
GERMAN, per, Neue Justiz, No 21, Nov 1962, pp 676-680.

JPRS 16965

Ulbricht's Terror Justice -- The Trial of Harry Seidel, 6 pp.
GERMAN, np, Neue Zuercher Zeitung, 31 Dec 1962, p 2.

JPRS 17234

The New Historical Legend of the SKD, by Hermann Weber, 34 pp.
GERMAN, per, SBZ-Archiv, Vol XIII, No 20, Oct 1962, pp 313-318.

JPRS 16909

Interview With Professor Behrens on Work Productivity, by Fritz Behrens, 14 pp.
GERMAN, per, Sonntag, Vol XVII, No 47, 18 Nov 1962, pp 14, 15.

JPRS 16909

The Liberal Communists of East Germany, 15 pp.
ITALIAN, per, Corrispondenza Socialista, Nov 1962, pp 585-588.

JPRS 16888

The Current Significance of Leninist Principles of Party Construction, by I. Tudosescu, Gh. Trandafir, 12 pp.
RUMANIAN, per, Lupta de Class, Vol XLII, No 11, 1962, pp 33-41.

JPRS 17140

Military

Training Weaknesses in the Bulgarian Army as Revealed by Accountability and Election Meetings in the Army, 6 pp.
BULGARIAN, np, Narodna Armiya, 27 Nov 1962, p 2.

JPRS 17124

Shortcomings in Army Ideological Work in Bulgaria, 5 pp.
BULGARIAN, np, Narodna Armiya, Vol XIX, No 4400, 24 Nov 1962, p 3.

JPRS 17124

NCO Handbook.
CZECH, bk, Prirucka Poddustojnika, 1962, pp 7-486, Encl No 1 to R-524-62, OUSARMA, Prague, Czechoslovakia.

*ACSI I-8010
ID 2221087

Eastern Europe
Military (Contd)

Handbook for Reserve Offices.

CZECH, bk, Prirucka Pro Dustojnika v Zaloze,
1962, pp 1-299, Encl No 1 to R-528-62, OUSARMA,
Prague, Czechoslovakia.

*ACSI I-8009
ID 2221085

Handbook for Commanders of Civil Defense
Firefighting Units, by Jan Misar.

CZECH, rpt, Prirucka pro Velitele Jednotek
Pozarni Sluzby CO, 1962, pp 5-106.

*ACSI I-7016
ID 2212905

Handbook for Commanders of Civil Defense
Antichemical Units, by Jinfrich Vich.

CZECH, bk, Prirucka pro Velitele Protichemickych
Jednotek Co, 1962, pp 1-121, Encl No 1 to
R-523-62, OUSARMA, Prague, Czechoslovakia.

*ACSI I-8008
ID 2221083

Handbook for Military Drivers, by Michal Vanik,
217 pp.

CZECH, bk, Prirucka pro Vojenske Ridice, 1961,
pp 1-189, Encl No 1 to R-38-62.

CSI 1362
ID 2195482

Training of Non-Coms, by Stanislav Ruzicka.

CZECH, bk, Vychova Poddustojniku, 1962,
pp 1-109, Encl No 1 to R-511-62, OUSARMA,
Prague, Czechoslovakia.

*ACSI I-8007
ID 2220113

Homing Rockets.

CZECH, per, Veda a Technika Mladezi, No 5,
1962, pp 152,153.

*519th MI Bn
I-8067
ID 2216547

The German Civil Defense Before and During
World War II, by Karl A. Pforr, 69 pp.

GERMAN, rpt, Der Deutsche Luftschutz vor
und Wahrend des 2. Weltkrieges, 1957.

ACSI I-3047
ID 2211688

Soviet Air Capabilities, Doctrine and Military
Tactics, by Schaedel, Hutzler, 7 pp.

GERMAN, bk, Deutscher Militaerverlag, 1962,
pp 1-28.

AF 1524849

Special Clinatic Examinations and Testing
Equipments, by Ivan Futaky.

HUNGARIAN, per, Hiradastechnika, Vol XIII, No 2,
1962, pp 66-70.

*ACSI I-2042
ID 2203245

Composite Diagram of Armor Penetration for
Artillery Firing in a Rectangular Coordinates
System, by Edmund Gronowski, 15 pp.

POLISH, per, Przeglad Morski, No 7, 8, 1962,
pp 42-54.

JPRS 16831

Eastern Europe
Military (Contd)

Low Altitude Antiair Defense, by J. Czownicki,
6 pp.
POLISH, per, Wojskowy Przegląd Lotniczy, No 9,
1962, pp 3-8.

JPRS 16831

League of Soldier's Friends' Work With Other
Organizations, by Stanislaw Reperowicz, 5 pp.
POLISH, np, Zolnierz Wolnosci, No 262,
6 Nov 1962, pp 1, 3.

JPRS 17124

Fourth National Congress of the National
Defense League, 8 pp.
POLISH, per, Zolnierz Wolnosci, Vol XIII (XX),
No 269, Nov 1962, pp 1, 3.

JPRS 17037

Testing and Authentication of Firearms and
Ammunition for Civilian Use: Minister of
General Engineering of 31 May 1962, Decree
No 52., 13 pp.
SLOVAK, per, Zierka Zakonov,
15 Jun 1962, pp 279-284.

JPRS 17037

Geographic

The Kariha Arch-Dam and Hydro Power Installation
on the Zambezi River, 7 pp.
GERMAN, np, Hoch und Tiefbau - Entreprise,
Schweizerische Baumeister - und Zimmermeister
Zeitung, Vol LXI, No 33, 1962, pp 296-301.
(Call No Th 3468)

Army Map Service

Hydrologic Calculations With the Help of Topographic
Characteristics, by Zbigniew Kajetanowicz, 20 pp.
HUNGARIAN, per, Hidrologiai Kozlony, Vol XLII,
No 4, 1962, pp 294-300. (Call No GB 651 H 63)

Army Map Service

Prefabricated Bridges Across the Regulated Dimbovita
River Downstream From Bucharest, Made of Pre-
stressed Ferro-Concrete With Pretensed Reinforcing,
by O. Vorobciuc, 16 pp.
RUMANIAN, per, Revista Transporturilor, Vol IX,
No 8, 1962, pp 325-332.

Army Map Service

Eastern Europe
Geographic (Contd)

Soil Map of Vojvodina With a Short Key to it,
by V. Neugebauer, 17 pp.
SERBO-CROATIAN, rpt, Metodika za Izra
Poljoprivrednih Osno a (Novi Sad), pp 1-22,
1953. 9201017

OTS-60-21615
PL-480

Commentary on the Soil Map of Vojvodina Scale
1:100,000, by V. Neugebauer, N. Pavicevic,
et al, 42 pp.
SERBO-CROATIAN, rpt, Zavod za Poljoprivredna
Istrazivanja (Novi Sad), 1958, pp 1-48.
9201010

OTS 61-11206
PL-480

Soil Forming Factors in Vojvodina, by
V. Neugebauer, 62 pp.
SERBO-CROATIAN, per, Zbornik Matice Srpske,
Seriya Prirodnih Nauka, No 2, 1952, pp 63-130.
9201017

OTS 60-21615
PL-480

Sociological

Hooliganism -- An Everyday Moral Problem,
17 pp.
BULGARIAN, per, Filosofska Misul, No 5, Sep/Oct 1962,
pp 18-31.

JPRS 17194

Violations of the Principles of Socialism and
Remnants of Bourgeois Morality, by Mois Semov,
21 pp.
BULGARIAN, per, Filosofska Misul, No 5,
Sep - Oct 1962, pp 32-48.

JPRS 17194

Contradictions in the Development of a Socialist
Society, by Petur IV. Velchev, 11 pp.
BULGARIAN, per, Filosofska Misul, No 5,
Sep-Oct 1962, pp 91-99.

JPRS 17194

Regulation on Teacher Appointment, Transfer,
and Discharge, by N. Papazov, 18 pp.
BULGARIAN, per, Iz Na Prezidiuma na Narodnoto
Subranie, No 89, 6 Nov 1962, pp 1-4.

JPRS 16975

Instructions Governing the Work of Commissions
of Labor-Specialist Physicians, 34 pp.
BULGARIAN, per, Iz na Prezidiuma na Narodnoto
Subranie, No 90, 9 Nov 1962, pp 1-8.

JPRS 16642

Eastern Europe
Sociological (Contd)

- Problems in Training Secondary Polytechnical School Students in Electrical Engineering, by Sergey Yaneff, Georgi Klisaroff, 16 pp.
BULGARIAN, per, Narodna Prosveta, No 9, 1962, pp 16-29. JPRS 16821
- Application of the Model Program for Educational Work, by Slavcho Slavcheff, 17 pp.
BULGARIAN, per, Narodna Prosveta, No 9, 1962, pp 54-64. JPRS 16821
- The Standard of Living of the Population in the Building of Socialism, by Toncho Trendafilov, 8 pp.
BULGARIAN, per, Novo Vreme, No 10, 1962, pp 49-58. JPRS 17036
- Status of Workers's Organizations According to the Preliminary Draft of the New Federal Constitution, by M. Draskovic, 8 pp.
CROATIAN, per, Narodni Odbor, No 8, 9, 1962, pp 420-426. JPRS 16679
- Latest Changes in the Law on Public Employees, by M. Jonic, 6 pp.
CROATIAN, per, Narodni Odbor, No 8, 9, 1962, pp 463-466. JPRS 16679
- The Health Insurance Law, 55 pp.
CROATIAN, per, Sluzbeni List FNRJ, No 22, 30 May 1962, pp 347-365. JPRS 17033
- Law on the Organization and Financing of Social Insurance, 72 pp.
CROATIAN, per, Sluzbeni List FNRJ, No 22, 30 May 1962, pp 365-388. JPRS 17033
- Structure of Houses and Apartments in the CSSR According to Size of Community, by Zdenek Jurocek, 24 pp.
CZECH, per, Demografie, Vol IV, No 3, Aug 1962, pp 193-203. JPRS 16681
- Special Schooling, by Jozef Nowakowski, 6 pp.
POLISH, per, Nova Szkola, No 9, 1962, pp 12-16. JPRS 16975
- Development of Scientific Cadres, by Henryk Golanski, 12 pp.
POLISH, per, Nowe Drogi, No 11, 1962, pp 51-58. JPRS 16844

Eastern Europe
Sociological (Contd)

Further Promotion of the Social Effectiveness of
Legal Science in the Planned Management of the
Economy and in the Ideological Struggle, by
L. Vasilev, 29 pp.

BULGARIAN, per, Pravna Misyl, No 4, 1962,
pp 10-35.

JPRS 16821

Comrade Courts on the Labor-Cooperative Farms,
by Tr. Lyalev, 12 pp.

BULGARIAN, per, Pravna Misyl, No 4, 1962,
pp 83-89.

JPRS 16821

Concerning the Penal Policy of the Courts, by
Kostadin Lyutov, 13 pp.

BULGARIAN, per, Pravna Misyl, No 4, 1962,
pp 114-121.

JPRS 16821

The Material Status of Bulgarian Workers, by
Khristo Krinchev, 9 pp.

BULGARIAN, per, Trud i Tseni, Vol IV, No 7,
pp 28-36.

JPRS 16681

The Basis for the New Organization of Social
Insurance, by Milan Jovic, 13 pp.

CROATIAN, per, Narodni Odbor, No 8, 9, 1962,
pp 451-461.

JPRS 16681

Activation of the Temporarily Unemployed in
Bosnia and Herzegovina in 1959-1961, by
Miso Blazic, 15 pp.

CROATIAN, per, Narodna Uprava, No 6-8, 1962,
pp 273-282.

JPRS 16681

Misdemeanors, Penalties, and Preventive
Measures in Bosnia and Herzegovina, 1961, by
Radomir Skakic, 6 pp.

CROATIAN, per, Narodna Uprava, No 6-8, 1962,
pp 286-290.

JPRS 16681

Distribution of Personal Income in Schools,
by Rodoljub Jemuovic, 8 pp.

CROATIAN, per, Nova Administracija, Vol X,
No 6, 7, Jun-Jul 1962, pp 466-470.

JPRS 16681

Fertility of Czechoslovak Population in
1950-1960, by Vladimir Srb, Milan Kucera,
13 pp.

CZECH, per, Demografie, Vol IV, No 3, Aug 1962,
pp 224-238.

JPRS 16681

Eastern Europe
Sociological (Contd)

Teacher Training Program, 17 pp.
POLISH, per, Glos Nauczycielski, No 39,
Sep 1962.

JPRS 16821

Sport Aviation of Yugoslavia, by
Jerzy R. Konieczny, 9 pp.
POLISH, per, Vojskowy Przegląd Lotniczy,
No 7, 1962, pp 56-66.

JPRS 17037

Public Health Measures and Organization --
Session of the Board of the Ministry of
Health and Social Welfare, 11 pp.
RUMANIAN, per, Incisorul Sanitar, 20 Oct 1962,
p 3.

JPRS 17209

Points of Departure for a Study of the
Influence of the Russian Language on the
Present-Day Rumanian Language, 9 pp.
RUMANIAN, per, Scrisul Sanatean, Vol XIII,
No 10, 1962, pp 73-79.

JPRS 16888

Financing Social Insurance, by Stanislav Sucic,
9 pp.
SERBO-CROATIAN, per, Socijalna i Zdravstvena
Politika, No 7-8, 1962, pp 15-23.

JPRS 16844

Rights of the Insured Under Health Insurance,
by B. J., 9 pp.
SERBO-CROATIAN, per, Socijalna i Zdravstvena
Politika, No 7-8, 1962, pp 48-57.

JPRS 16844

Standardizing Activity of Republic Bodies
and People's Councils, in Implementing Law
on Health Care and Health Services, by
Milivoje Petrovic, 8 pp.
SERBO-CROATIAN, per, Socijalna i Zdravstvena
Politika, Vol XIV, No 9, 10, 1962, pp 17-23.

JPRS 17209

Economic

Helsinki Over-all Planning, Proposals Prepared by the City Planning Division 1953-1960, 34 pp.

FINNISH, bk, Helsingin Yleiskaavandotus Laadittu Asemakaavaosastolla 1953-1960, No 9, 1960, pp 21-27, 39, 40, 41-46, 52-76, 86, 87, 89, 90, Encl 1 to R-124-61.

ACSI I-3012
ID 2173211

Report on the Activities of Industrial Plants, by Aatu Pontys, 11 pp.

FINNISH, rpt Helsingin Kaupungin Teollisuuslaitosten Toimintakertomus, 1958, pp 37-39, 41-46, 49-51.

ACSI I-5054
ID 2216515

Tampere Is Being Built Up, by A. Alapeuso, 6 pp.
FINNISH, per, Rakennustaito, Vol LIV, 1959, pp 367, 368-371. (CALL No TH 4 R 36)

Army Map Service

Gas Mains ETC in Helsinki, by B. Hogberg, L. Ceder, 7 pp.

FINNISH, per, Rakennustaito, Vol LVII, No 10, 1962, pp 405-410.

ACSI I-5051
ID 2216512

Comparison of Improvements Made in Various Continuous Billet Cogging Mills, by A. Poncelet.

FRENCH, per, Centre de Documentation Siderurgique Circulaire d'Informations Techniques, Vol XVIII, No 10, 1961, pp 2247-2262.

BISI 3013

Economic Conditions, 6 pp.

FRENCH, per, Industrie, 1962, pp 522, 523.

Army Map Service

The Federal Association of the German Aerospace Industry. (NY-7400)

GERMAN, bk, Der Bundesverband der Deutschen Luft- und Raumfahrtindustrie, 1962, pp 1-104.

*JPRS

Development of the "International Bureau for Rock Mechanics", by G. Wilkenroth.

GERMAN, per, Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin, Klasse für Bergbau, Huttenwesen und Montangeologie, No 1, 1961, pp 11-13.

Dept of Interior
TN7 E57 No 560

Austria and Autobahn Construction in Germany, by Hans Bretz, 7 pp.

GERMAN, per, Auto Touring, 1962.

Army Map Service

Western Europe
Economic (Contd)

Present-Day Methods for the Reconstruction of
Hamburg's Port, by Arved Bolle, 9 pp.
GERMAN, per, Bauingenieur, Vol XXVII, 1962,
pp 342-345. (Call No 1962 HEFT 9).

Army Map Service

Technical Progress in the Iron and Steel Industry,
by P. Seydel.
GERMAN, per, Stahl und Eisen, Vol LXXXII,
16 Aug 1962, pp 1187-1196.

BISI 2987

Political

Danish Party Chief Jespersen on Czechoslovak
Party Congress, Editor Karlsson on Italian
Party Congress, by Erley Olsen, 5 pp.
DANISH, np, Land Og Folk, 23 Dec 1962, p 5.

JPRS 17185

Selected Articles From the Danish Periodical
Tiden.

No 3, 1962, pp 88-102.
The Pre-Congress Discussion, 28 pp.

JPRS 16678

No 4-5, 1962.
The Report of the Central Committee Delivered
by Knud Jespersen, 57 pp, (pp 117-148).

JPRS 16678

Martin Nielsen on the Work of the Party, 6 pp,
(pp 155-157).

IB Norlund on Problems of the International
Communist Movement, 14 pp, (pp 158-165).

Political Resolution of the 21st Congress of
the Danish Communist Party, 9 pp, (pp 175-180).

No 6, 1962, pp 181-192.
Danish Communist Editor IB Norlund on the
International Situation, by IB Norlund,
22 pp.

JPRS 16936

Netherlands: Victory for Peace, by Paul De Groot,
5 pp.

DUTCH, np, De Waarheid, 24 Nov 1962, p 3.

JPRS 16736

The Finnish Communist Party and the International
Communist Movement, 11 pp.

FINNISH, np, Kansan Lehti, 24-30 Nov 1962.

JPRS 16882

Western Europe
Political (Contd)

Finnish and Cuban Neutrality Compared, by
Jarno Penanen, 5 pp.
FINNISH, per, Tilanne, Oct-Nov 1962, pp 388-392. JPRS 16846

Debat Communiste Reader Attacks Garaudy
Philosophical Report, 7 pp.
FRENCH, per, Le Debat Communiste, Vol I,
No 9, 15 Nov 1962, pp 3-5. JPRS 16846

French Leftist Weekly Analyzes the Sino-Indian
Situation, by Claude Cadart, 11 pp.
FRENCH, per, France Observateur, Vol XIII,
No 656, 29 Nov 1962, pp 15, 16. JPRS 16882

French Socialist Martinet on the Chinese Delegates,
5 pp.
FRENCH, np, France Observateur, 6 Dec 1962. JPRS 16934

French Leftist Weekly Analyzes Crises in
Communist World, by Gilles Martinet, 7 pp.
FRENCH, per, France Observateur, 13 Dec 1962,
p 32. JPRS 17153

Revisionists Cause Italian Communist Party
Crisis, by Andre Masson, 5 pp.
FRENCH, per, Le Communiste, Vol IX, No 85,
Nov 1962, pp 12-14. JPRS 16939

Beelen Urges Greater Internal Democracy To
Increase Effectiveness of Belgian Communist
Party, by Rene Beelen, 25 pp.
FRENCH, np, Le Drapeau Rouge, 7 Dec 1962, pp 1-4. JPRS 16846

French Communist Party Must Take Leaf From Italian
Communist Party Book, by Michel Bosquet, 5 pp.
FRENCH, per, L'Express, Vol X, No 601, 20 Dec 1962,
pp 19-20. JPRS 17153

Waldeck Rochet's Report to the Central Committee
of the French Communist Party, 25 pp.
FRENCH, np, L'Humanite, 15 Dec 1962, pp 5, 6. JPRS 17015

Maurice Thorez' Report to the Central Committee
of the French Communist Party, by Maurice Thorez,
12 pp.
FRENCH, np, L'Humanite, 18 Dec 1962, p 4. JPRS 17185

On the Tenth PCI Congress, by P. L. Thirard,
6 pp.
FRENCH, np, Tribune Socialiste, 15 Dec 1962,
pp 6, 7. JPRS 17135

Western Europe
Political (Contd)

French Dissident Communist Appraisal of Cuba Crisis, by
Arrieux, 11 pp.

FRENCH, per, La Voie Communiste, No 31, Nov-Dec 1962,
p 16.

JPRS 17153

Law Providing for the Imposition of Taxes on the
Greek Cypriot Community, 40 pp.

GREEK, np, Episimos Efimeristis Kypriakis
Dimokratias, No 196, 1 Nov 1962, pp 77-115.

JPRS 17251

The Right, Center, and Left Factions of the Italian
Communist Youth Federation, by Guelfo Zaccharia,
21 pp.

ITALIAN, per, Corrispondenza Socialista, No 11,
1962, pp 568-572.

JPRS 17154

The Thesis of the Pro-Chinese at Padua, 44 pp.

ITALIAN, per, Corrispondenza Socialista, No 11,
1962, pp 573-584.

JPRS 16880

Excerpts From the Debate on the 10th PCI Congress,
11 pp.

ITALIAN, np, L'Unita, 4 Dec 1962, pp 10, 11.

JPRS 16767

Ingrao Continues Debate With Lombardi, by
Pietro Ingrao, 6 pp.

ITALIAN, np, L'Unita, Vol XXXIX, No 232, 18 Dec 1962,
pp 1, 10.

JPRS 17153

The PSI Left-Wing View, 5 pp.

ITALIAN, np, Mondo Nuovo, No 21, 25 Nov 1962, p 9.

JPRS 16736

Italy: Time to Examine the Negative Aspects, 5 pp.

ITALIAN, np, Mondo Nuovo, No 21, 25 Nov 1962, p 9.

JPRS 16736

Italian Socialist Analysis of Trends in East-West
Diplomacy, by Lucio Livertini, 7 pp.

ITALIAN, np, Mondo Nuovo, No 22, 9 Dec 1962,
pp 7, 8.

JPRS 16954

The Italian Socialist Party Position on Relations
With the Right and the Left, by Francesco de Martino,
14 pp.

ITALIAN, per, Mondo Operaio, Vol XV, No 10, 1962,
pp 1-6.

JPRS 17248

The Socialist Central Committee: Two Communist
Reactions, by Luciano Paolicchi, 10 pp.

ITALIAN, per, Mondo Operaio, Vol XV, No 10, 1962,
pp 16-20.

JPRS 17248

Western Europe
Political (Contd)

Serri's Report to Italina Communist Youth Congress,
by Rino Serri, 27 pp.
ITALIAN, per, Nuova Generazione, Vol VII, No 36/37,
4 Nov 1962, pp 5-7.

JPRS 16944

The Unity of Lenin's Thought, by Pio Marconi, 10 pp.
ITALIAN, per, Nuova Generazione, Vol VII, No 38,
18 Nov 1962, pp 12, 13.

JPRS 16747

Italian Communist Youth Organ Discusses Culture and
the Working Class, by Riccardo Terzi, 9 pp.
ITALIAN, per, Nuova Generazione, 2 Dec 1962, p 13.

JPRS 16801

Selected Articles From the Italian Periodical
Rinascita.

No 23, 13 Oct 1962, pp 8, 9.

JPRS 17021

Italian Communist Party Expels Member for
Doctrinaire and Extremist Views, by Franco
Calamandrei, 8 pp.

No 26, 3 Nov 1962.

JPRS 17146

Togliatti: Socialist Power is Power for Peace,
by Palmiro Togliatti, 8 pp, (pp 1, 2).

Ingrao: The Breakup of the Alliance, by Pietro
Ingrao, 14 pp, (pp 3, 4).

The Pre-Congress Debate in Preparation for the
Tenth Italian Communist Party Congress, 19 pp,
(pp 7, 8).

Maturity and Responsibility of the Communist
Youth Federation, by Luciano Barca, 7 pp, (p 21).

Natta: Uniform Development of Marxist Studies,
by Alessandro Natta, 13 pp, (pp 25, 26).

No 29, 24 Nov 1962, p 12.

JPRS 16736

Italian Communist Party View on Sino-Soviet
Dispute Over Peaceful Coexistence Policy, 5 pp.

No 32, 15 Dec 1962, pp 1, 2.

JPRS 17153

Togliatti's View of Contributions of 10th Party
Congress to World Communist Strategy, by
Palmiro Togliatti, 5 pp.

Western Europe
Political (Contd)

Norway: The Common Market is a Fact, But for How Long, by Kjeld Osterling, 7 pp.
NORWEGIAN, np, Friheten, Vol XXII, No 284, 27 Nov 1962, pp 4, 5.

JPRS 16897

Norway: A Monopolistic or a Democratic Europe, by Kjeld Osterling, 5 pp.
NORWEGIAN, np, Friheten, Vol XXII, No 285, 28 Nov 1962, pp 4, 5.

JPRS 16897

Norwegian Socialist People's Party Convention Mid-November 1962, by Sigurd Evensmo, 12 pp.
NORWEGIAN, np, Orientering, Vol X, No 41, 24 Nov 1962, p 3.

JPRS 16936

What Joining Will Mean for Sweden, 9 pp.
SWEDISH, np, Ny Dag, 17 Nov 1962, p 3; 20 Nov 1962, p 3; and 22 Nov 1962, p 5.

JPRS 16736

Swedish Communists Oppose Common Market Entry, 8 pp.
SWEDISH, np, Ny Dag, 23 Nov 1962, p 5; 24 Nov 1962 p 3; 27 Nov 1962, p 3.

JPRS 16882

Military

Some Data From the History of the Army Technical Corps (From 1 August 1951 Known as The National Defense War Material Administration), 14 pp.
DANISH, per, Forsvarets Krigsmaterielforvaltning, 1909-1959, pp 36-53.

ACSI I-4053
ID 2211712

New Norwegian Gas Mask.
DANISH, per, Hjemme Vaernet, No 6, 1962, p 5.

*ACSI I-7009
ID 2216531

Antitank Defense, 54 pp.
GERMAN, rpt, Panzerabwehr, Mar 1962.

ACSI I-7006
ID 2216528

Guerrilla Communications, by Kjell Hansen.
NORWEGIAN, per, Heimevernsbladet, Oct 1962, pp 332-337.

*ACSI I-7010
ID 2216532

Quartermaster Corp in the Field, 122 pp.
PORTUGUESE, bk, Intendencia Em Campanha, 1957, pp 1-100, Encl No 6 to R-76-49, Army Attache, Lisbon.

ACSI I-1663
ID 2112594

Descriptions of Hands Grenades and Smoke Candles.
SWEDISH, pamphlet, Beskrivning av Handgranster och Rokfacklor, Vol DCCXIX, 1960, pp 1-24.

*ACSI I-8068
ID 2216548

Western Europe
Geographic

Learning (of, about) Helsinki, by Eero Salala, 9 pp.
FINNISH, rpt, Helsinki Oppimassa, 1957, pp 12-24.

ACSI I-5056
ID 2216517

Sociological

A Dutch' Visitor's Impressions of Czechoslovakia,
by A. L. Schneiders, 32 pp.
DUTCH, np, Het Parool, 17, 23, 24, and 29 Nov 1962.

JPRS 17247

Federal Law Pertaining to Civil Shelters.
FRENCH, rpt, Loi Federale sur les Constructions de
Protection Civile, pp 11-16.

ACSI I-7042-A
ID 2216537

Message From the Federal Council to the Federal
Assembly Concerning a Civil Shelter Bill.
FRENCH, rpt, Message du Conseil Federal a l'Assemblee
Federale Concernant un Projet de loi sur les
Constructions de Protection Civile, pp 1-10.

ACSI I-7042-B
ID 2216537

Biographic

Nikolaus Rudinger, by C. von Kupffer.
GERMAN, per, Anatomischer Anzenger, Vol XIII, 1897,
pp 219-232.

*Navy/NMS

AFRICA

Economic

Future of the Senegal Telephone Service, by
J. Coste de Bagneaux, 25 pp.
FRENCH, rpt, Avenir du Service Telephonique
au Senegal, 1962, (Call No Id 221 2253)

Army Map Service

Selected Articles From the French Periodical
Europe France Outremer, No 386, Apr 1962.

*ACSI I-7047
ID 2216536

Electricity and Water in Black Africa and
Madagascar. Electricity in Africa, by
Rene Sergeant, (pp 17-20).

Methods Used in the Electrification of Black
Africa and Madagascar, by A. Ligouzat, (pp 21-23).

Hydroelectrical Installations Constructed on
Being Studied, by J. Apertet, (pp 24-31).

Africa
Economic (Contd)

Selected Articles From the French Periodical
Europe France Outremer, No 386, Apr 1962. (Contd)

*ACSI I-7047
ID 2216536

Panorama of Public Production, Transportation and
Electrical Distribution Installations in Black
Africa and Madagascar, (pp 33-41).

The African and Madagascan Electrical Equipment
Market, (pp 47-58).

Report of Work Done in the Federal Republic of
Cameroun During the Year 1961, 10 pp.

FRENCH, per, Expose des Travaux Executes en Republique
Federals du Cameroun Pendant l'Annee, 1961, pp 1-8.
(Call No ACIC SI 149520)

Army Map Service

Selected Articles From the French Periodical
Industries et Travaux D'Outremer.

No 58, Sep 1958.

Some Problems Encountered in the Harnessing of
the Kouilou and the Development of Pointe-Noire,
(pp 487-493).

*ACSI I-7067
ID 2216540

The Sounda Hydroelectric Installation, (pp 505-516).

Industrial Production and Private Groups
Interested in Kouilou Power Utilization, (pp 517-521).

The Development of Pointe-Noire and the Fointe-Noire
Region, (pp 535-541).

No 102, May 1962.

Investment of the Aid and Cooperation Fund in the
Republic of Cabon in 1962.

*ACSI I-7065
ID 2216538

Principal Accomplishments of the Ministry of Public
Works in Morocco in 1961.

The New SOCATRAL Plant Put in Operation at Edea.

The Congo-Ocean Railway, by Reimar Holzinger, 6 pp.
GERMAN, per, Eisenbahn, Vol XV, No 9, 1962, pp 176-180.
(Call No TF 3 E 35)

Army Map Service

Africa
Political

Algerian Communist Views on Single Party Rule, by
Bachir Hadj Ali, 6 pp.
FRENCH, np, El Hourriya, No 4, 23 Nov 1962, pp 1, 5.

JPRS 16747

Comment on Joint Declaration of French and Algerian
Communist Parties, by Larbi Bouhali, 5 pp.
FRENCH, np, El Hourriya, No 4, 23 Nov 1962, p 6.

JPRS 16747

Geographic

Canary Islands, A Fashionable Vacation, by Jean-Marie
Bresson, 10 pp.
FRENCH, per, Connaissance du Monde, No 11, 1962,
pp 63-72. (Call No G 1 C 75)

Army Map Service

Ubangi-Chad, by R. Naud, 14 pp.
FRENCH, per, Industries et Travaux d'Outre-Mer,
No 90, May 1961, pp 391-397. (Call No HC279 .I42)

Army Map Service

Islands and Territories in the Gulf of Biafra, 17 pp.
SPANISH, rpt, Africa Atlantica: Las Riberas
Fronterous de Canarias, 1961, pp 15-28. (Call No DT
32 D 54)

Army Map Service

North Africa - Morocco - The Straits Complex, by
J. Diaz de Villegas, 13 pp.
SPANISH, per, Instituto de Estudios Africanos,
1961, pp 1-13. (Call No DT 32 D 54)

Army Map Service

Sociological

An Aboure Village of the Ivory Coast, by Georges
Niangoran-Bouah, 39 pp.
FRENCH, per, Cahiers D'Etudes Africaines, No 2,
May 1960, pp 113-127.

JPRS 17228

Observations of the Significance of Present-Day
Tribalism in Black Africa, by Paul Mercier, 25 pp.
FRENCH, per, Cahiers Internationaux de Sociologie,
Vol XXXI, Jul-Dec 1961, pp 61-80.

JPRS 17228

MIDDLE EAST

Economic

A Study of the Chemical Stabilization of the Carriageway of the Khorramshahr-Ahwaz Road in Iran, by Raymond Peltier, 45 pp.

FRENCH, per, Revue General des Routes et des Aerodromes, No 366, Jul 1962, pp 53-71.

CSIR Tr No 252

Deductions and Depreciations Pertaining to Mining Enterprises in Cyprus, 8 pp.

GREEK, np, Episimos Efimeris Tis Kypriakis Dimokratias, No 196, 1 Nov 1962, pp 115-123.

JPRS 17251

The Development of the Mekorot Company, by Shimon Henigman, 6 pp.

HEBREW, np, Al Hamishmar, 17 Oct 1962, p 3.

JPRS 16700

The Eight Year Plan for Developing the Israel Water Economy, by A. Wiener, 6 pp.

HEBREW, np, Al Hamishmar, 17 Oct 1962, pp 3, 4.

JPRS 16700

Israeli Ahdut 'Avodan Convention September 1962, 149 pp.

HEBREW, np, Lamerhav, 14-19 Sep 1962.

JPRS 16792

New Israeli Shipyard Ready to Begin Construction, by Yosef Michalsky, 5 pp.

HEBREW, np, Lamerhav, Vol VIII, No 2596, 11 Oct 1962, p 2.

JPRS 17078

Present and Future of Electric Power Economy, by Sh. Ben-Amitay, 5 pp.

HEBREW, np, Lamerhav, 31 Oct 1962, p 8.

JPRS 16968

Kanpur - Municipal Government Annual Administrative Report - Activities of Fiscal Year to March 1961, 209 pp.

URDU, rpt, 1960/1961.

ACSI I-3045

ID 2211685

When the Jordan Goes Underground, by Yitshaq Luden, 6 pp.

YIDDISH, np, Letzte Nyes, No 2370, 2371, 17, 18 Oct 1962, pp 2, 3.

JPRS 16700

Middle East
Political

Regulations for the Administration of the Union
of Industries, 5 pp.

ARAB, np, Al-Waqai' Al-'Iraqiyyah, 23 Oct 1962,
p 1.

JPRS 16972

Decree Concerning the Reform School, 13 pp.

ARAB, np, Al-Waqai' Al-'Iraqiyyah, 23 Oct 1962,
p 8.

JPRS 16972

Israel: Mac Aims to Separate Khrushchev and
Nehru, 7 pp.

FRENCH, per, L'Information D'Israel, Vol VII,
No 1670, 28 Nov 1962, pp 3, 4.

JPRS 16736

Law of the Exercise of the Administrative Powers
of the Cypriot Greek Communal Assembly, 6 pp.

GREEK, per, Episimos Efimeris Tis Kypriakis
Dimokratias, No 185, Sep 1962, pp 65-69.

JPRS 16972

Israeli Peace Committee Criticized, by Chaviv Cannan,
5 pp.

HEBREW, np, Haarets, 29 Nov 1962, p 2.

JPRS 16882

Selected Articles From the Hebrew Newspaper
Kol Haam.

21 Oct 1962, pp 2, 3.

JPRS 16736

Israeli Communist Party Official Speaks on Peace
and an Atom-Free Middle East, by Esther Vilenska,
16 pp.

22 Oct 1962, pp 2, 3.

JPRS 16936

Israeli Communist Party Official Speaks on Peace
and an Atom-Free Middle East, by Esther Vilenska,
16 pp.

23 Oct 1962, p 2.

JPRS 17185

Second Israeli Communist Press Festival, by M. Sne,
8 pp.

7 Dec 1962.

JPRS 17153

Neutrality Still Feasible in Spite of Sino-Indian
Dispute-an Israeli Communist View, 9 pp, (p 2).

Israeli Communists Protest Banning of Algerian
Communist Newspaper, by Berl Balty, 6 pp, (p 2).

Middle East
Military

The Israeli Defense Budget, by Smuel Segev, 7 pp.
HEBREW, np, Bamahaneh, 6 Nov 1962, pp 4, 5. JPRS 17192

Procurement and Sale of Arms, by Y. Levitah, 15 pp.
HEBREW, np, Bamahaneh, 27 Nov 1962, pp 4, 5. JPRS 17192

Lt Col Yehuda Harari, First Commander of
Israel's Paratroops, by David Laser, 15 pp.
HEBREW, np, Bamahaneh, 27 Nov 1962, pp 6, 7. JPRS 17192

Basic Objectives of the Israeli Defense Forces and
How to Achieve Them, 6 pp.
HEBREW, np, Ma'Arakhot, No 147, Oct 1962, pp 34, 35. JPRS 17192

Lt Col Bren on New Training Methods, by Bren, 7 pp.
HEBREW, np, Ma'Arakhot, No 147, Oct 1962, pp 36-38. JPRS 17192

Sociological

The Solution of the Problem of Hospital Facilities,
by Itzhak Kanev, 9 pp.
HEBREW, np, Davar, 7 Oct 1962, pp 2, 4. JPRS 17078

How a Group of Students Became Experts in Nuclear
Physics, by Amos de Shallit, 6 pp.
HEBREW, np, Haboker, 9 Nov 1962, p 7. JPRS 16968

Organization of Tekhnion Graduates Submits to
Senate Its Survey of the Curriculum, 12 pp.
HEBREW, per, Yedi'ot Hatekhnion, No 59, 60,
Sep 1962, pp 14, 15, 20. JPRS 16968

The Tekhnion Foundation For Research and Development,
Ltd, by David Zohar, 12 pp.
HEBREW, per, Yedi'ot Hatekhnion, No 59, 60, Sep 1962,
pp 30-33. JPRS 16968

FAR EAST

Economic

- The Chi-erh (Chi-ning -- Erh-Lien) Railroad, by
Leng Chao, 23 pp.
CHINESE, Document, Chi-Erh T'ieh-lu, Shanghai, 1956,
pp 1-39. JPRS 16850
- Handbook of Railroad Designs - Tunnels and Bridges
1962.
CHINESE, bk, Ch'uan-po ti Kou-tsao, 1962, pp 1-575,
Encl C to R-487-62 Hong Kong. *ACSI I-7040
ID 2208822
- A Study of the Methodology of the Division of Agri-
cultural Regions of China, by Teng Ching-Chung, 139 pp.
CHINESE, bk, Chung-kuo Nung-yeh Chu-hua Fang-fa Lun
Yen-chiu, Peiping, Jan 1960, pp 1-88. JPRS 16912
- The Regularity of Mineral Distribution in China, by
Chang Ta, 6 pp.
CHINESE, bk, Chung-kuo Ti-chih-hsueh, Peiping, 1959,
pp 338-343. JPRS 17165
- Liao-ning Province During the Last Decade, 334 pp.
CHINESE, bk, Liao-ning Shih-nien, Shen-yang, Jun 1960,
pp 1-172. JPRS 17182
- Agricultural Geography of China, by Chu Cho, 43 pp.
CHINESE, bk, Wo-Kuo Te Nung-Yeh Ti-Li, Peiping
April 1957, pp 1-37. JPRS 16911
- Translations From the Communist China Digest.
- No 76, Jul-Oct 1962, 89 pp. JPRS 16335
No 77, Sep-Oct 1962, 88 pp. JPRS 16579
No 80, Aug, Sept 1962, JPRS 16813
No 81, May-Oct 1962, 95 pp. JPRS 16998
No 82, Aug-Nov 1962, 117 pp. JPRS 17206
- Translations on Communist China's Agriculture,
Animal Husbandry and Materials
- No 22, 29, 30 Oct, 3 Nov 1962 JPRS 16794
No 23, 18, 22 Oct 1962. JPRS 16829
No 24, Nov 1962, 27 pp. JPRS 16982
No 25, Nov 1962, 35 pp. JPRS 17030
- Translations on Communist China's Industry, Mining,
Fuels, and Power.
- No 18, Oct 1962, 15 pp. JPRS 16890
No 19, Nov 1962, 58 pp. JPRS 16984
No 20, Nov 1962, 12 pp. JPRS 17112

Far East
Economic (Contd)

Translations on Communist China's Science and
Technology, No 16, 51 pp.
CHINESE, nps, Nov 1962.

JPRS 17165

Translations on Communist China's Trade, Finance,
Transportation and Communication.

No 28, 12-15, 30 Oct 1962, pp 2, 3.

JPRS 16758

No 29, 18 Oct, 1-3 Nov 1962.

JPRS 16808

No 30, 23 Oct 1962, pp 2, 5.

JPRS 16830

No 31, Nov 1962, 51 pp.

JPRS 17032

No 32, Nov 1962, 58 pp.

JPRS 17084

Selected Articles From the Chinese Periodical
Ching-chi Yen-chiu.

No 9, 17 Sep 1962.

JPRS 17095

Monetary Circulation and the Principal of Bank
Credit, by Wang Ta, 26 pp, (pp 1-8).

On Individual and Social Costs of Commodity in
a Socialistic System, by Ta Yuan-chen, 20 pp,
(pp 8-14).

On the Nature of Economic Results in Socialism
by Wang Yung-hsi, 23 pp, (pp 15-22).

On the Problem of Conformity Between Theory and
Reality in Economic Research, by Yang Chien-pai,
25 pp, (pp 23-31).

Several Problems of Economic Research in Arrange-
ment of Productive Power, by Feng Hua-te, 26 pp,
(pp 32-43).

An Inquiry on Bookkeeping Methods, by Yen
Pai-chen, Ho Kuang-yu, et al, 23 pp,
(pp 44-50).

Discussion of Several Theoretical Problems by
the Shanghai Economic Association During the First
Half of 1962, 18 pp, (pp 61-65).

No 10, 1962.

JPRS 16978

Concerning Heavy Industry's Dependence on and
Support for Agriculture, by Wang Hsiang-ming,
19 pp, (pp 1-11).

The Function of State Banks During Socialist Con-
struction, by Kao Hsiang, 22 pp, (pp 12-23).

Far East
Economic (Contd)

Selected Articles From the Chinese Periodical
Ching-chi Yen-chiu. (Contd)

- No 10, 1962
Problems Concerning the Balanced Relationship
Between the Purchasing Power of the People and the
Supply of Consumer Goods, by Tung Fu-Jeng,
Wu Chia-pei, 25 pp, (pp 24-35).
JPRS 16978
- An Examination of Enterprise Costs, by So Chen,
10 pp, (pp 36-41, 66).
- The Meaning of Profit in Socialist Enterprises
and Ways to Earn it, by Ko Chih-ta, Ho Cheng,
9 pp, (pp 42-47).
- On Commodity Economy, by Yu Feng-Tsun, 15 pp,
(pp 48-54).
- A Brief Review of the First Volume of a History
of Chinese Economic Thought, by Shih Shih-Ch'i,
19 pp, (pp 67-69).
- Peiping's Economists and Theoreticians Study the
Question of Circulation Under the Socialist System,
by Ti Yuan, 6 pp, (pp 70, 71).
- Golden Opportunity of Self-Reformation for Industrial
and Commerical Enterprises, by Hsu Chung-Lin, Hsiao
Sung-Li, et al, 7 pp.
CHINESE, per, Hsin-Hua Pan-Yueh-K'an, No 16, Aug 1957,
pp 110-112.
JPRS 17183
- The Equivalent Value Exchange of Industrial and
Agricultural Products, by Chiang Hsueh-mu, 23 pp.
CHINESE, per, Hsin-hua Yueh-pao, No 4, 1962,
pp 4-12.
JPRS 16825
- Establishment and Administration of Agriculture
Middle Schools, by Wu Tien-Shih, 6 pp.
CHINESE, per, Hsin-hua Yueh-pao, No 4, 1962,
pp 118-120.
JPRS 16825
- On the Problem of Reserve and Consumption, by
Yang Po, 26 pp.
CHINESE, per, Hung-Ch'i, No 21, 1962, pp 12-20.
JPRS 16685
- On Water and Soil Conservation in the Yellow River
Valley, by Chao Ming-fu, 20 pp.
CHINESE, per, Hung-Ch'i, No 21, 1962, pp 30-37.
JPRS 16685

Far East
Economic (Contd)

- The Effect of Plant Protection on the Increase of
Agricultural Production, by Shen Ch'i-i, 27 pp.
CHINESE, per, Hung-ch'i, No 22, Nov 1962, pp 33-41. JPRS 16985
- Our Rapidly Developing Communications, Postal
Service, and Telecommunications, by Chang Pang-Ying,
47 pp.
CHINESE, per, Jen-hsieh Hui-kan, No 6, 31 Dec 1959,
pp 1-13. JPRS 17178
- The Needs and Training of Agricultural Technical
Cadres, by Chan Cho, 13 pp.
CHINESE, per, Jen-min Chiao-Yu, No 8, 1958, pp 7-9. JPRS 17183
- How to Cultivate Technical Cadres for Local
Industries, by Chan Cho, 17 pp.
CHINESE, per, Jen-min Chiao-yu, No 9, 1958,
pp 11-13, 17. JPRS 17183
- An Addendum to the Factory's Written History, by
Shu Ch'un, 25 pp.
CHINESE, per, Jen-min Wen-hsueh, No 9, 1962,
pp 10-17. JPRS 16732
- Proposals Concerning the Solution of the Raw
Material Problem of China's Germanium Industry,
by Lu Hsiang, 8 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 9, 1956,
pp 90-91. JPRS 17174
- Selected Articles From the Chinese Periodical
T'u-jang.
- No 1, 1961, pp 17-19, 22. JPRS 17165
Ma T'ung-i's Experience in the Abundant Corn of
Harvest, by Sung Ping-k'uei, Lang Tze-mei, et al,
11 pp.
- No 4, 1961, pp 30-32. JPRS 17165
Green Manure and the Improvement of Saline Soil,
by Lu Ping-chang, 6 pp.
- No 8, 1961. JPRS 17165
Improvement and Utilization of Lake Fields
and Alluvial Land, by Hsin K'un-ch'ien, 7 pp,
(pp 55, 56).
- Effects of Follow-up Fertilizers on Roots of
Cotton Plants, by Ch'en Hsueh-yang, 5 pp,
(pp 57, 58).

Far East
Economic (Contd)

Selected Articles From the Chinese Periodical
T'u-jang. (Contd)

- No 1, 1962, pp 62, 65. JPRS 16761
The Pedology Association of Kiangsu Province
Holds Technical Conference, 5 pp.
- No 2, 1962, pp 62, 65. JPRS 16761
The Pedology Association of Anhui Holds Agriculture Soil and Soil Suitability Discussions, 5 pp.
- China's First AC Electrified Railroad Line, by Li Pan-lin, 10 pp.
GERMAN, per, Zeitschrift der Organisation Fuer Die Zusammenarbeit der Eisenbahnen, No 3, May-Jun 1962, pp 5-10. JPRS 17004
- The Recent Problem of Production Funds in China, by Yamashita Ryuzo, 18 pp.
JAPANESE, per, Ajia Keizai Jumbo, No 515, 11 Sep 1962, pp 1-9, 24. JPRS 17125
- Concerning the Organization of Kun Agricultural Co-operative Management Committee in North Korea, 7 pp.
JAPANESE, per, Chosen Kenkyu Goppo, No 1, 25 Jan 1962, pp 67-70. JPRS 17109
- Concerning Grasping the Central Link in the Guidance of the People's Economy, 20 pp.
KOREAN, per, Kulloja, No 14, 1962, pp 2-9. JPRS 17109
- Formation of a Firm Foundation of Local Industry and its New Stage of Development, by Pak Yong-Song, 12 pp.
KOREAN, per, Kulloja, No 15, 1962, 20 Sep 1962, pp 16-23. JPRS 17109
- The Significance of Comprehensive Utilization of Mountains in the Development of the People's Economy, by Kim Sang-hak, 17 pp.
KOREAN, per, Kulloja, No 15, 1962, 20 Sep 1962, pp 36-41. JPRS 17109
- Improvement of Socialistic System of Commerce, 7 pp.
KOREAN, per, Minju Choson, 15 Nov 1962, p 1. JPRS 17081

Far East
Economic (Contd)

- Farm Mechanization, by Yi Yang-chon, 10 pp.
KOREAN, per, Minju Choson, 15 Nov 1962, p 2. JPRS 17081
- A Few Problems Presented by the 1962 Annual
Final Distribution Task in the Cooperative
Farms, by Lee Il-yong, 8 pp.
KOREAN, np, Minju Choson, 16, 17 Nov 1962. JPRS 17109
- Selected Articles From the Korean Periodical
Nodong Sinmun.
- 11 Nov 1962, p 2. JPRS 17081
Trade Unions Responsible for Consumer Supply
Services, by Kim Wal-Lyong, 7 pp.
- 1 Oct 1962, p 2. JPRS 16714
Experience of Yonan-gun Party Committee With
Lower-Level Organizations, by Kim Kwang-bin,
12 pp.
- 3 Oct 1962. JPRS 16713
Several Problems in the Establishment of Seed-
Raising and Seed-Collection Systems, by
Yi Chong-su, 10 pp, (p 2).
- The Effect of the Proper Harvest Time on the
Amount of Harvest, by Kim Yong-gil, 5 pp,
(p 4).
- 4 Oct 1962, pp 2, 3. JPRS 16713
The Glorious Solution of the Agricultural Problems
and the Peasant Problems in our Country, by
Yi Si-rok, 30 pp.
- The State and Cooperative Commercial Commodity Fund
of the Mongolian People's Republic and Its Planning,
by P. Oldziybat, 40 pp.
MONGOLIAN, brochure, 1962, pp 3-51. JPRS 17000
- Certain Steps for Improving the Effectiveness
of Motor Transport Vehicles, 5 pp.
MONGOLIAN, np, Hodolmor, 11 Sep 1962, p 3. JPRS 16967
- The Darhan of the Future, by Dz. Dazhdondob, 7 pp.
MONGOLIAN, np, Hodolmor, 18, 21 Sep 1962. JPRS 16967
- Expanding Credit Relations Between Industry and the
State Bank of the Democratic Republic of Vietnam,
by Tran Linkh Shen, 12 pp.
RUSSIAN, per, Dengi i Kredit, No 8, 1962, pp 40-48. JPRS 16925

Far East
Economic (Contd)

Selected Articles From the Vietnamese Newspaper Doc Lap. JPRS 16980

No 587, 28 Sep 1962, pp 4, 11.
Accumulation of Capital for Socialist Industrializa-
tion, by Vu Quoc Tuan, 7 pp.

No 588, 5 Oct 1962.
Accumulation of More Capital Required for Expansion
of Cooperatives, by Nguyen Van Thi, 7 pp, (p 3).

Strength From Accumulation, 6 pp (p 4).

From Joint Enterprises to Cooperatives, 7 pp, (p 5).

Selected Articles From the Vietnamese Periodical
Hoc Tap, No 10, 1962.

JPRS 16815

The Strong and Total Development of Agriculture
Production in the Mountain Regions, by Truong
Ngoc, 15 pp, (pp 25-33).

Correct Solution of the Relationships Between the
Collective Economy of the Cooperatives and the
Supplementary Economy of the of Individual
Members, by Duong Quoc Cam, 9 pp, (pp 34-39).

Studies to be Made on the Advancement of Regional
Agricultural Specialization in North Vietnam, by
Minh Chi, 16 pp, (pp 40-49).

Build and Strongly Develop a Chemical Industry in
the Northern Part of our Country, by Vo Lien,
Nguyen Ung Thi, 11 pp, (pp 50-55).

Strengthen the Currency's Buying Power, by
Ho Lich, 15 pp, (pp 56-61).

Report on Arched Bridge Construction, 9 pp.
VIETNAMESE, per, Ky Thuat Giao Thong, No 30,
Aug 1962, pp 2-6.

JPRS 16892

The Problem of Non-Mechanized Transportation, by
Nguyen Kha, 12 pp.
VIETNAMESE, per, Ky Thuat Giao Thong, No 31,
Sep 1962, pp 15-20.

JPRS 16943

Nam Dinh Merchandise, by Ha Van, 6 pp.
VIETNAMESE, np, Nhan Dan, 13 Oct 1962, p 3.

JPRS 16892

Far East
Economic (Contd)

Friendly Gathering Organized by Nong Nghiep for Cooperative Representatives, by Zuan Khang, 6 pp.
VIETNAMESE, per, Nong Nghiep, 4 Oct 1962, pp 1, 2. JPRS 16980

Speech by Vice Premier Le Thanh Nghi At Production Review Conference, 11 pp.
VIETNAMESE, per, Thong Nhat, No 279, Oct 1962, pp 8, 9, 16. JPRS 16980

Economic News Briefs, 5 pp.
VIETNAMESE, per, Thong Nhat, No 280, 12 Oct 1962, p 9. JPRS 16980

Selected Articles From the Vietnamese Periodical To Quoc, Oct 1962.

Problems in Agricultural Production, 6 pp, (pp 4-6). JPRS 16774

Our Railroad System, by Ngo Linh Ngoc, 9 pp, (pp 12-14). JPRS 16892

New Changes in the Thai Nguyen Mountains and Woods, by Hai Chu, 6 pp, (pp 15, 16). JPRS 16892

Science and Technology News, 13 pp, (pp 17-21, 29). JPRS 16774

Political

Personnel Organization, 13 pp.
CHINESE, bk, Chung-hua Jen-min Kung-ho-kuo Fa-kuei Hui-pien, 1951, Peiping, 1953, pp 517-530. JPRS 17156

Regulations Governing the Appointment and Removal of Government Personnel by People's Councils Above the Hsien Level, 5 pp.
CHINESE, bk, Chung-hua Jen-min Kung-ho-kuo Fa-kuei Hui-pien, Jul-Dec 1957, Peiping, 1958, pp 202-206. JPRS 17156

Problems Concerning the Training of Personnel for National Construction, by Lin Fong, 6 pp.
CHINESE, Yearbook, Jen-min Shou-ts'e, Peiping, 1957, pp 130-132. JPRS 17199

Semimonthly Review of Current Events, 6 pp.
CHINESE, bk, Shih-shih Shou-tse, Peiping, No 17, 6 Sep 1962, pp 38-40. JPRS 16697

Far East
Political (Contd)

Translations of Political and Sociological Information
on Communist China.

No 38, Nov 1962, 99 pp.	JPRS 17047
No 39, Nov 1962, 99 pp.	JPRS 17082
No 40, Oct-Nov 1962, 83 pp.	JPRS 17097
No 41, Nov 1962, 57 pp.	JPRS 17122
No 43, Oct-Nov 1962, 65 pp.	JPRS 17230

Further Discussion on Engels Affirmation of Identity
of Thinking and Existence, by Ai Ssu-chi, 28 pp.
CHINESE, per, Che-hsueh Yen-chiu, No 5, 25 Sep 1962,
pp 12-14, 68.

JPRS 16752

Another Discussion of the Understanding and Employment
of the Concept of Identity, by Kao Ting-chung, 17 pp.
CHINESE, per, Che-hsueh Yen-chiu, No 5, 25 Sep 1962,
pp 28-33.

JPRS 16752

Chinese Picture of the Sino-Indian Border Issue,
by Yeh Hsiu, 7 pp.
CHINESE, per, Chung-kuo Ch'ing-Nien, 16 Aug 1962.

JPRS 16335

The Function of the National Supervisory Organs in the
Fight Against Bureaucratism, 20 pp.
CHINESE, per, Hsin-hua Pan-yueh-k'an, No 3, 1957,
pp 10, 11.

JPRS 17199

My View of the Problem of Consolidation, by
Yao Kuang, 7 pp.
CHINESE, per, Hsin-hua Pan-yueh-k'an, No 3, 1957,
pp 16-18.

JPRS 17199

Provisional Regulations of the State Council on
Awards and Punishments for Government Administrative
Personnel, 5 pp.
CHINESE, per, Hsin-hua Pan-yueh-Kan, No 22, 1957,
pp 88, 89.

JPRS 17156

Selected Articles From the Chinese Periodical
Hung-Ch'i.

No 21, 1962.
Raise High the Banner of Mao Tse-tung's Ideology
For Better Socialist Commerce, by Yao Ilin, 22 pp,
(pp 4-11).

JPRS 16685

Modern Revisionism Follows the Decadent Bourgeoisie
in Literature, by Li Shu-chih, 17 pp, (pp 21-26).

Far East
Political (Contd)

Selected Articles From the Chinese Periodical
Hung-Ch'i. (Contd)

No 22, Nov 1962.

JPRS 16985

Safeguard the Purity of Marxism-Leninism, 19 pp,
(pp 1-6).

Why Does the Nehru Government Still Refuse
Peaceful Negotiations, 16 pp, (pp 7-11).

The Law Governing Class Struggle Must Not be
Forgotten, by Shih Tung-hsiang, 35 pp, (pp 12-22).

Revisionist Thinking of Class Reconciliation
Seen From the Standpoint of Literary Art, by
Li Shu-chih, 18 pp, (pp 22-27).

Ten Years of Steady Progress, by Pien Chun, 16 pp.
CHINESE, per, Min-tzu T'uan-chien, No 9, 1962, pp 5-8.

JPRS 16732

Learn and Execute Well Party's Policies on the
Nationalities, by Kao Wan Pao Cha Pu, 9 pp.
CHINESE, per, Min-tzu Tuan-chieh, No 9, 1962, pp 9-10.

JPRS 16732

A Semi-Monthly Review of Current Events, 6 pp.
CHINESE, per, Shih-chieh Chih-shih, No 20, 25 Oct 1962,
pp 1-3.

JPRS 17230

Pajetta's Reply to the Chinese at the Tenth Italian
Communist Party Congress, 6 pp.
ITALIAN, np, L'unita, 6 Dec 1962, p 6.

JPRS 16934

Selected Articles From the Indonesian Newspaper
Harian Rakjat.

24-25 Oct 1962.

JPRS 16578

The Struggle Against Imperialism and the National
Front, by D. N. Aidit, 24 pp.

27 Oct 1962, p 2.

JPRS 16874

Continue to Demonstrate the Brilliant Revolutionary
Tradition, 6 pp.

29 Oct 1962, pp 1, 3.

JPRS 16874

Without Approving Nasakom, It Is Not Possible
To Become a Leader of the Indonesian People,
by D. N. Aidit, 6 pp.

Far East
Political (Contd)

Selected Articles From the Indonesian Newspaper
Harian Rakjat. (Contd)

- 1 Nov 1962, p 3. JPRS 16874
Enlist as Many Young Women as Possible in the
Revolutionary Movement, 7 pp.
- 7 Nov 1962, p 3. JPRS 16874
Lenin, Master of Revolution, by Njoto, 6 pp.
- Presidium Report to the Japan Communist Party Fourth
Central Committee Plenum, by Kenji Miyamoto, 82 pp.
JAPANESE, np, Akahata, 13 Oct 1962, pp 1-14. JPRS 16927
- Secretary General Miyamoto's Concluding Remarks at the
National Activist Conference of the Japan Communist
Party, 10 pp.
JAPANESE, np, Akahata, 18 Nov 1962, pp 1, 2. JPRS 17260
- One Year of the Socialism Reform Movement, by Noda
Yasaburo, 10 pp.
JAPANESE, np, Atarashii Rosen, 10 Oct 1962, p 1. JPRS 16993
- Signs of Unification in Movement Against Atomic and
Hydrogen Bombs, 7 pp.
JAPANESE, np, Atarashii Rosen, 20 Oct 1962, p 1. JPRS 16993
- Reconstruction of the Vanguard Party is an Immediate
Task, by Naito Tomochika, 12 pp.
JAPANESE, np, Atarashii Rosen, 20 Oct 1962, p 1. JPRS 16993
- Selected Articles From the Korean Periodical Kulloja.
- No 14, 1962, pp 10-15. JPRS 17101
Elevation of the Political-Practical Level of
Cadres is an Urgent Task Presented Before the
Party Committees, by Ko Chong-su, 17 pp.
- No 15, 20 Sep 1962. JPRS 17101
The Occupation of the Six Hills and the Revolutionary
Project Spirit, 7 pp, (pp 2-6).
- The Party Committee's Positive Leadership and the
Control of the Party Members at Large, by Choe
Sang Muk, 10 pp, (pp 7-10).
- For Firm Establishment of Spirit of People Project
Among the First Echelon Cadre Members, by Chon Tal
Kyong, 10 pp, (pp 11-15).

Far East
Political (Contd)

Selected Articles From the Korea Periodical Kulloja.
(Contd)

- No 15, 20 Sep 1962, JPRS 17101
Marxism-Leninism Concerning the Obliteration
of the Distinction Between Town and Country, by
Kim Yang-son, 10 pp, (pp 24-29).
- The Role of the Kun in the Socialist Construction,
by Yi Song-nin, 19 pp, (pp 30-35)
- The Glorious Achievements of the Korean People in
the Socialist Construction, by Hak Tok-chong, 19 pp,
(pp 42-48).
- No 16, 1962, JPRS 17107
The Great Vitality of our Party's Art Policy, by
Pak Ung-Gol, 7 pp, (pp 2-7).
- Party Guidance Over Commerical Policy Must be
Strengthened, by Chong Du-hwan, 12 pp, (pp 8-12).
- Let us Reinforce our Struggle Against the Bourgeois
Ideology, 12 pp, (pp 21-26).
- The New Malthusianism is the Tool for American
Agression in South Korea, by Yu Jai-man, 5 pp,
(pp 33-36).
- The Role of the Party Committee Chairman, by Yi Tong-gun,
15 pp.
KOREAN, np, Nodong Sinmun, 4 Oct 1962, p 2. JPRS 16714
- The Indoctrination of Party Ideology Must Progress
With Firm Foundation in the Party Life of Party
Members, by Kong Wyong-Gyong, 24 pp.
KOREAN, per, Tang Saop, Sep 1962, pp 19-26. JPRS 17107
- A Few Experience From Establishing Party Life
Guidance System, by Kim Buong-ok, 5 pp.
KOREAN, per, Tang Saop, Sep 1962, pp 31-35. JPRS 17107
- Ukase of the Presidium of the Small Khural of the
Mongolian People's Republic of 6 August 1948 on the
Judicial System of the Mongolian People's Republic,
11 pp.
RUSSIAN, bk, Konstitutsiya i Osnovnyye Zakonodatel'nyye
Akty Mongolskoy Narodnoy Respubliki, 1952, pp 252-268. JPRS 16986

Far East
Political (Contd)

Let Us Struggle for an Ever Growing People's Culture, by Dang Thai Mai, 20 pp.
VIETNAMESE, per, Hoc Tap, No 10, 1962, pp 11-19. JPRS 16815

Let Us Strive to Fulfill the Party Development Task, by Vu Canh, 13 pp.
VIETNAMESE, per, Hoc Tap, No 11, 1962. JPRS 17195

Front Activity is Important Work, by Tran Xuan Bach, 5 pp.
VIETNAMESE, np, Nhan Dan, 3 Oct 1962, p 2. JPRS 16694

Improvement of Government Machinery, by Le Tat Duc, 6 pp.
VIETNAMESE, np, Nhan Dan, 12 Oct 1962, p 2. JPRS 16694

Report of the National Assembly Standing Committee, by Xuan Thuy, 13 pp.
VIETNAMESE, np, Nhan Dan, 24 Oct 1962, p 2. JPRS 16694

Military

Submarine Mark (Dolphin Mark), 6 pp.
JAPANESE, np, Asagumo Junionr, 1 Jul 1962, Dept of Navy
Encl 2 to 753-62 to USNA, Tokyo. ONI 5155312

A Few Problems Involved in the Political Task of Directing the Training for Fighting Capability, 6 pp.
VIETNAMESE, np, Quan Doi Nhan Dan, 4 Oct 1962, JPRS 16942
pp 1, 3.

Educational Work in Combat Training, by Dinh Chan, 9 pp.
VIETNAMESE, np, Quan Doi Nhan Dan, 23 Oct 1962, p 3. JPRS 16942

Geographic

The Manass River Reclamation District, by Ch'u An-P'ing, 115 pp.
CHINESE, monograph, Ma-Na-Ssu Ho K'en-chu, Peiping, JPRS 17038
Aug 1956, pp 1-147.

Kiangsu -- The Water Country, by Wang Wei-P'ing, 98 pp.
CHINESE, bk, Shui-hsiang Chiang-su, Shanghai, Dec 1956, JPRS 16910
92 pp.

Far East
Geographic (Contd)

Water and Soil Conservation, 132 pp.
CHINESE, report, Shui-t'u Pao-chih Shui-li
Ts'o-shih, Peiping, 1959, pp 1-46.

JPRS 17046

An Outline of Stratigraphy, 69 pp.
CHINESE, bk, Ti-ts'eng Kuei-fan Ts'ao-an
Chi Ti-ts'eng Kuei-fan Ts'ao-an Shuo-ming Shu,
Peiping, 1960, pp 1-33.

JPRS 16932

Our Hanoi, by Nguyen Bac, 6 pp.
VIETNAMESE, per, Cuu Quoc, No 3,088, 7 Oct 1962,
pp 5-6.

JPRS 16979

The Thousand and One Facets of Hanoi, by Hai Nhu,
Hai Van, 11 pp.
VIETNAMESE, per, Cuu Quoc, 7 Oct 1962, pp 10-11.

JPRS 16979

Sociological

Primitive Society of Owenke, by Chiu Pu, 213 pp.
CHINESE, bk, Ao Wen K'e Jen Ti Yuan Shih She Hui
Hsing T'ai, Peiping, Feb 1962, pp 1-157.

JPRS 16839

Activities of Chinese Communist Personalities,
No 56, 19 pp.
CHINESE, nps, Dec 1962.

JPRS 16997

The Central Task of Political Thought Work in Schools,
8 pp.
CHINESE, per, Chiao-yu Pan-Yueh-K'an, No 2, 1959,
pp 4,5.

JPRS 17188

An Answer to a Letter From a Comrade Who Is Going
to Work in a District of Hardship, by Fang Yu,
8 pp.
CHINESE, per, Ch'ing-nien, No 18, 16 Sep 1962,
pp 2-5.

JPRS 16697

The Two-Road Struggle as Seen From the Fen River
Flows Forever, by Yen Kang, 6 pp.
CHINESE, per, Chung-kuo Ch'ing-nien-pao, 20 Oct 1962,
p 4.

JPRS 16732

Far East
Sociological (Contd)

We Should Have Class Eyes, by Kao Yin, 6 pp.
CHINESE, per, Chung-kuo Ch'ing-nien-pao,
20 Oct 1962, p 4. JPRS 16732

Comments on Love and Marriage, 5 pp.
CHINESE, per, Chung-kuo Fu-nu, Oct 1962, pp 11, 21. JPRS 17230

Selected Articles From the Chinese Periodical
Hsin-Hua Pan-yueh-K'an.

No 6, 1957. JPRS 17188
Talk on the Direction of Advanced Engineering
Education, by Tu Ch'ing-hua, 7 pp, (pp 79-82).

An Analysis of Training Targets and Teaching
Plans of Advanced Engineering Schools in China,
by Chang Wei, 9 pp, (pp 82-86).

No 16, Aug 1957, pp 133-135. JPRS 17183
Should the Employment of Personnel, Overlook
Political Ingredient, 6 pp.

No 21, 1957, pp 146-149. JPRS 17188
To the Graduates of 1957, by Chiang Nan-hsiang,
5 pp.

No 24, 1957, pp 104-108. JPRS 17188
A Brief Discussion of the Struggle Between the
Two Paths in China's Higher Education, by
Li Yun-Yang, 9 pp.

Better Educate and Train Party Members, 6 pp.
CHINESE, per, Hsin-hua Yueh-pao, No 5, 1962,
pp 11, 12. JPRS 17183

Teaching Miscellany -- On Building the Spirit
of Bravery in Children, by Kan Feng, 8 pp.
CHINESE, per, Hung-ch'i, No 21, 1962, pp 27-31. JPRS 16685

The Farmer, by Chang Ch'ing-T'ien, 17 pp.
CHINESE, per, Hung-ch'i, No 22, Nov 1962, pp 27-32. JPRS 16985

Far East
Sociological (Contd)

Selected Articles From the Chinese Periodical
Jen-min Chiao-yu.

- No 11, 1956. JPRS 17188
I Agree With the Education Policy of Comprehensive
Development and Educate According to the Material,
by Liu Wei-Kuang, 16 pp, (pp 13-16).
- Why Are University Students Tense, by Chu Wen-pin,
15 pp, (pp 23-26).
- No 7, 9 Jul 1957, pp 38-41. JPRS 17188
A Study of the Existing Examination System, by
Tso Jen-hsieh, 11 pp.
- No 9, 1957, pp 4-6. JPRS 17188
To Seriously Study and Vigorously Strive for
Carrying Out the Educational Principles Set Forth
by Chairman Mao, 6 pp.
- No 10, 1957. JPRS 17188
Our Higher Education is Exceedingly Good, by
Chang Chien, 26 pp, (pp 6-10, 54).
- Eight Years of Achievement in Higher Normal School
Education, by Ch'en Hsuan-shan, 15 pp, (pp 11-13).
- Minorities Education, by Fang Yu-yen, 13 pp,
(pp 18-20).
- No 4, 1958, pp 4, 5. JPRS 17188
Expand the Great Leap Forward in People's Education,
by Chang Chi-ch'un, 7 pp.
- No 5, 1958, p 11. JPRS 17188
Correct Some Mistaken Views on Vocational Schools,
by Tung Lin, 6 pp.
- No 6, 1958, pp 2, 3. JPRS 17188
Should Education Be Led by the Party or Experts,
10 pp.
- No 7, 1958, pp 18, 19. JPRS 17188
Nurture Teachers, 8 pp.
- No 9, 1958. JPRS 17183
The San-Kuan-Miao Hsiang Red and Expert Cadres
School, by Teng-feng Hsien, 11 pp.

Far East
Sociological (Contd)

- The Problems Concerning the Teaching Method Reform,
by Lei Chen-wu, 23 pp.
CHINESE, per, Kirin Ta-hsueh Jen-wen K'o-hsueh
Hsueh-pao, No 4, 1958, pp 1-10. JPRS 17188
- Accelerate Cadre Training to Reach the Peak of
Scientific Achievement, by Wu Yu-ch'in, 26 pp.
CHINESE, per, K'o-khsueh T'ung-pao, No 13,
Jul 1960, pp 385-396. JPRS 17183
- A Preliminary Study on the System of Serfdom in
Certain Districts of the Tibetans, the Uighurs, and
the Tais in Pre-Liberation China, by Sung Shu-hua,
29 pp.
CHINESE, per, Li'shih Yen-chiu, No 5, 1962, pp 1-19. JPRS 17230
- The Victory of the Policy of Nationally Regional
Autonomy in Liang-shan, Szechwan Province, by
wa-cha-mu-chi, 6 pp.
CHINESE, per, Min-tsu T'uan-chieh, Oct 1962, pp 16-18. JPRS 17230
- The I Nationality, by Hung T'ao, 8 pp.
CHINESE, per, Min-tsu T'uan-chieh, Oct 1962, pp 46-48. JPRS 17230
- Energetically Study Advanced Science From Soviet
Specialists, by Shen Ch'i-i, 5 pp.
CHINESE, per, Pei-ching Hung-yeh Ta-hsueh Hsueh-pao,
Vol IV, No 1, 1958, pp 1, 2. JPRS 17188
- The Relationship Between Mental and Physical Work,
by Yu Yu-sung, 25 pp.
CHINESE, per, Peiping K'uang-yeh Hsueh-yuan Hsueh-pao,
No 1, 1959, pp 4-11. JPRS 17188
- Legal Education and Research, by Masao Fukushima, 10 pp.
JAPANESE, document, Chugoku No Ho To Shakai, Tokyo,
15 Jul 1960, pp 86-93. JPRS 17188
- Educational Program of Communist China, 22 pp.
JAPANESE, document, Seiji Keizai Soran, Tokyo,
1 Jan 1962, pp 777-788. JPRS 17188
- Strengthen the Function of Kun's Educational Admin-
istration, 6 pp.
KOREAN, per, Inmin Kyoyuk, No 9, 1962, pp 3-7. JPRS 17101
- Preparation for the Inspection of Teaching and
Assistance to Teachers, 7 pp.
KOREAN, per, Inmin Kyoyuk, No 9, 1962, pp 12-15. JPRS 17101

Far East
Sociological (Contd)

Experience of Cadre Correspondence Students in
P'yongan-Namdo, by Kim Ch'ung-hup, 9 pp.
KOREAN, np, Nodong Sinmun, 2 Oct 1962, p 2.

JPRS 16714

Some Thoughts About Recent Literary Works, by
Nguyen Dinh Thi, 9 pp.
VIETNAMESE, per, Hoc Tap, No 10, Oct 1962, pp 20-24.

JPRS 16815

LATIN AMERICA

Economic

Industrial Growth in Southeastern Brazil, by
Pedro Pinchas Geiger, 22 pp.
PORTUGUESE, per, Revista Geographica, Vol XXX,
No 56, Jan-Jun 1962, pp 23-40. JPRS 17098

Population Geography: Human Potential of
Northeastern Brazil, by Ruth Magnanini, 14 pp.
PORTUGUESE, per, Revista Geographica, Vol XXX,
No 56, Jan-Jun 1962, pp 43-49. JPRS 17098

Finances of Free Cuba, by N. Obolenskiy,
23 pp.
RUSSIAN, per, Finansy SSSR, No 11, Nov 1962,
pp 41-49. JPRS 17089

Grain Elevators in the Republic of Cuba, by
A. Danilin, 14 pp.
RUSSIAN, per, Mukomel'no-Elevatornaya
Promyshlennost', No 11, 1962, pp 27-31. JPRS 17158

Loose Storage and Transportation of Unrefined
Sugar in the Republic of Cuba, by A. V. Kamenetskiy,
6 pp.
RUSSIAN, per, Sakharnaya Promyshlennost', No 12,
Dec 1962, pp 11-14. JPRS 17090

Trade and Payments Agreement Between the
Republics of Cuba and Mali, 7 pp.
SPANISH, per, Commerce and Industry, 12 Dec 1962,
No 240, pp 1-4. JPRS 17061

Labor Problems in Peru, 13 pp.
SPANISH, pp, La Cronica, 24 Nov 1962, n 7;
25-27, 29, 30 Nov 1962, n 5. JPRS 16769

railroads and Roads, 7 pp.
SPANISH, per, El Desarrollo Economico de C. R.,
No 5, 1962, pp 12-14, 55-56, 80. Army Map Service

Efforts to Increase Production in Various Fields,
Noted, by Eloy Ribalta Arbolaez, 5 pp.
SPANISH, pp, El Mundo, 2 Dec 1962, n B-2. JPRS 17158

Radio and Television at the University, by
Carlos Sanchez, 7 pp.
SPANISH, pp, El Mundo, 2 Dec 1962, pp 6, 7. JPRS 17158

Resolution on Special Savings Accounts, by
Raul Coporo Bonilla, 5 pp.
SPANISH, per, Gaceta Oficial, 27 Aug 1962,
pp 10701, 10702. JPRS 16748

Latin America
Political

The Heroic Cuban People Will Win, 6 pp.
CHINESE, per, Hung-Ch'i, No 21, 1962, pp 1-3.

JPRS 16685

The Facts About Cuba and the Logic of Blocs,
by Paolo Vittorelli, 8 pp.
ITALIAN, np, Avanti, 5 Dec 1962, pp 1, 6;
6 Dec 1962, pp 1, 2.

JPRS 16897

The Cuban Problem and Aggressive Nature of
Imperialism, by Seiichi Ishida, 5 pp.
JAPANESE, np, Akahata, 14 Nov 1962, p 5.

JPRS 17028

President of Ultab Suggests New Framework for
Rural Unionization in Brazil, by Lyndolpho Silva,
8 pp.
PORTUGUESE, per, A Hora, No 70, 17-24 Nov, 1962,
p 8.

JPRS 16764

Selected Articles From the Portuguese Periodical
Novos Rumos.

No 197, 23-29 Nov 1962, p 5.
Review of Francisco Juliao's Que Sao as
Ligas Camponeses, by Rui Faco, 6 pp.

JPRS 16887

7-13 Dec 1962, p 3.
Communist Newspaper Protests Dismissal of
Brazilian Labor Minister, 8 pp.

JPRS 17010

No 200, 14-20 Dec 1962.
A Political Resolution of the Brazilian
Communists, 23 pp, (p 4).

JPRS 17011

Popular Reaction to Brazilian Court Decisions
Repealing the Election of Sergeants and
Deputies, 6 pp, (p 8).

Permanent Mission of Cuba to the United Nations,
10 pp.
SPANISH, rpt, Encl 1 to Desp A-454, USUN,
8 Oct 1962.

Dept of State

Speech Given by Cuban Delegate Dr. Raul Cepero
Bonilla at the Plenary Session of the Seventh
Regional FAO Conference for Latin America, by
Raul Cepero Bonilla, 28 pp.
SPANISH, pamphlet, El Discurso Pronunciado
por el Delegado Cubano Dr. Raul Cepero Bonilla
en la Reunion Plenaria del dia 20 de Noviembre
1962, 20 Nov 1962, np 1-15.

JPRS 16898

Latin America
Political (Contd)

Anti- Terrorist Faction of Venezuelan Communist
Party Drafts Manifesto, 8 pp.
SPANISH, per, A. D. 8 Dec 1962, p 24.

JPRS 17026

Leftist and Pro-Communist Activity in Colombia,
13 pp.
SPANISH, np, Batalla del Pueblo, 1-15 Nov 1962,
pp 1, 2, 4.

JPRS 16902

Illegal Entry of Chinese in Venezuela, 7 pp.
SPANISH, per, Elite, No 1,940, 1 Dec 1962,
pp 42, 43.

JPRS 16765

Selected Articles From the Spanish Newspaper
La Esfera.

21 Nov 1962, p 2.
Resolutions Condemning Assassination of
Professor Discussed in Congress, 6 pp.

JPRS 16804

23 Nov 1962, p 2.
Senate Condemns Abominable Assassination
of Ramirez Labrador, 7 pp.

JPRS 16804

26 Nov 1962, pp 1, 2.
La Esfera Exposes Venezuelan University's
School of Journalism as a Marxist Indoctrina-
tion Center, 8 pp.

JPRS 16886

3 Dec 1962, pp 1, 2.
Guerrilla Threats Against Peasantry, 8 pp.

JPRS 17055

The New Ideology of the Ex-Communist Pellecer,
by Raul Excarcega, 5 pp.
SPANISH, np, Excelsior, 26 Dec 1962.

JPRS 17233

The PGT Strongly Condemns Carlos Manuel,
by Clemente Marroquin Rojas, 9 pp.
SPANISH, np, La Hora, 5 Dec 1962.

JPRS 17063

The Peruvian Communists and the Military
Junta, by Jorgo del Prado, 9 pp.
SPANISH, per, Principios, Nov-Dec 1962,
pp 49-56.

JPRS 17027

Text of Letters Exchanged by Luis Corvalan of
the Chilean Communist Party and Paul Ampuero
of the Chilean Socialist Party in the Spring
of 1962, 42 pp.
SPANISH, np, El Siglo, 29 Mar 1962, pp 4, 5.

JPRS 16811

Latin America
Political (Contd)

Communist and Pro-Communist Activity in Colombia,
34 pp.

SPANISH, np, Voz de la Democracia, No 201,
15 Nov 1962, pp 3, 5, 7, 9, 12.

JPRS 16763

Communist and Pro-Communist Activity in Colombia,
12 pp.

SPANISH, np, Voz de la Democracia, 22 Nov 1962.

JPRS 17012

Communist Press Comments on Youth Activity
in Colombia, 18 pp.

SPANISH, np, Voz de la Democracia, 13 Dec 1962,
pp 1, 5, 9.

JPRS 17085

Military

With Unit 1700, by Dora Alonzo, 5 pp.

SPANISH, per, Bohemia, No 46, 16 Nov 1962,
pp 7-9.

JPRS 16748

Cuban Youth Trains With Regular Army Unit,
by Roger Gonzalez Guerrero, 6 pp.

SPANISH, per, Verde Olivo, No 43, 28 Oct 1962,
pp 28-31.

JPRS 17200

Letters From Troops, 7 pp.

SPANISH, per, Verde Olivo, No 43, 28 Oct 1962,
pp 80-82.

JPRS 17200

Geographic

The Present-Day Agriculture. Agricultural Maps,
by Antonio Jose da Silva Teixeira, L.A.G. Barbosa,
17 pp.

SPANISH, rpt, A Agricultura do Arquipelago de
Cabo Verde, 1958, pp 52-64. (Call No S 471 C 12 T 26)

Army Map Service

Illustrated Geography of Costa Rica, by
Trejos Hermanos, 16 pp.

SPANISH, per, Geografia Ilustrada de Costa Rica,
1955, pp 7, 8, 10-24. (Call No GB 1398 T 78)

Army Map Service

Latin America
Sociological

Education in Revolutionary Cuba, by
Dencho Minchev, 16 pp.
BULGARIAN, per, Narodna Prosveta, No 10,
Oct 1962, pp 102-111.

JPRS 17020

What is the Report to Parents, 10 pp.
SPANISH, np, El Mundo, 25 Nov 1962,
pp A-5.

JPRS 16791

Public Health in Socialist Cuba, by
V. S. Grazhul', 7 pp.
RUSSIAN, per, Zdravookhraneniye Rossiyskoy
Federatsii, No 11, 1962, pp 27-31.

JPRS 16816

NORTH AMERICA

Political

A Criticism of the New American Regulations for
Testing Mining Explosives, by Cyrill Krauz.
CZECH, bk, Masarykova Akademie Prace Odbor
Chemicko-Technologicky, 1923, pp 1-12.

*ACSI I-8142
ID 2216560

Geographic

Cartographic Organizations of the United
States Army, by A. M. Komov, 7 pp.
RUSSIAN, bk, Gosudarstvennaya Kartografiya
SShA, 1962, pp 23-29.

Army Map Service

WORLD WIDE

Economic

Important Problems in the Development of
World Economics, by A. A. Arzumanyan, 13 pp.
RUSSIAN, per, Vest Ak Nauk SSSR, No 8, 1962,
pp 14-22.

JPRS 16852

Methods for Comparing the Level of Labor Pro-
ductivity in Various Countries, by Z. Roman, 12 pp.
RUSSIAN, per, Vest Statistiki, No 6, Jun 1962,
pp 36-44.

JPRS 16775

SCIENTIFIC

Aeronautics

Helicopter in the Service of Geology and Other
Branches of the National Economy, by A. A. Mel'nik,
105 pp.

RUSSIAN, bk, Vertolet na Sluzhbe Geologii i
Drugikh Otrasley Narodnogo Khozyaystva, 1960,
83 pp. 9679273

FTD-TT-62-180

The AI Family of Soviet Aviation Engines, by
A. G. Ivchenko.

RUSSIAN, per, Grazhdan Aviats, No 11, 1962,
pp 10, 11.

*FTD-TT-62-1924

AN-14 "Pchelka" (Little Bee), by N. Vladimirov.

RUSSIAN, per, Grazhdan Aviats, No 11, 1962,
pp 12, 13.

*FTD-TT-62-1924

"Disk Plane", Flying Apparatus of the Future,
by B. Broude.

RUSSIAN, per, Grazhdan Aviats, No 11, 1962,
pp 28, 29.

*FTD-TT-62-1924

Contribution to the Air Cooling of Gas Turbine
Blades, by A. G. Zenukov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Aviats
Tekh, No 2, 1962, pp 133-137.

*FTD-TT-63-70

Ribbed Diffusers, by V. K. Migay.

RUSSIAN, per, Teploenergetika, No 10,
Oct 1962, pp 55-59.

*FTD-TT-63-86

Effects of Supports on the Flow (Outflow)

Behind a Body, by P. Rebuffet, 40 pp.

FRENCH, rpt, Groupe Consultatif Pour la
Recherche et la Realisation Aeronautiques,
Organisation du Traite de L'Atlantique Nord,
Report No 302, pp 1-31, March 1959. 9201232

AEC SCL-T-444

The Combustion Chambers of Aircraft Turbine
Engines.

POLISH, per, Technika Lotnicza, No 8, 1962,
pp 235-242.

*FTD-TT-63-67

Combating Fatigue in Aircraft Structures,
by V. Bolotin.

RUMANIAN, per, Sport si Tehnica, No 4, 1.

*FTD-TT-62-1912

Scientific
Astronomy

An Artificial Meteor, by N. A. Yakovkin, 9 pp.
RUSSIAN, bulletin, Orgkomitet MGG pri Prezidiume
Akad Nauk Ukr, SSR, Informatsionnyi Byulleten',
pp 37-41.

Navy Tr 329
NRL 922

Results of Observations of Mars in the USSR
During the Great Opposition of 1956, 201 pp.
RUSSIAN, rpt, Rezul'taty Nablyudeniya Marsa vo
Vremya Velikogo Protivostoyaniya 1956 g v SSSR,
1959, 195 pp.

NASA TT F-93

Tentative Results of Radar Observations of
Meteors on $\lambda=10$ Meters, by Ye. I. Fialko,
F. I. Peregudov, 6 pp.
RUSSIAN, per, Byul Komissii po Kometam i
Meteoram Astron Soveta Ak Nauk SSSR, No 2,
1958. 9667353

FTD-MCL-226

Concerning an Error in Determining the
Coordinates of a Radiant, by A. K. Sosnova,
7 pp.
RUSSIAN, per, Byul Komissii po Kometam i
Meteoram Astron Soveta Ak Nauk SSSR, No 2,
1958. 9667353

FTD-MCL-226

The Ultraviolet Solar Spectrum in the Region
2470-3100 Å, by V. P. Kachalov, A. V. Yakovleva.
RUSSIAN, per, Iz Krymskoy Astrofiz Observ,
Ak Nauk SSSR, Vol CXXVII, 1962, pp 5-43.

*Navy/NRL

Ultraviolet Be 1 Lines in the Solar Spectrum,
by V. P. Kachalov, M. Z. Khokhlov.
RUSSIAN, per, Iz Krymskoy Astrofiz Observ,
Ak Nauk SSSR, Vol CXXVII, 1962, pp 44-51.

*Navy/NRL

An Experiment in the Use of Punched Cards in
the Study of Problems Relating to Tektites, by
G. G. Vorob'yev.
RUSSIAN, per, Meteoritika, No 22, 1962,
pp 157-161.

NASA TT F-114

Spectroheliograph of the Gornaya Astronomical
Station of the Main Astronomical Observatory of the
Academy of Sciences of the USSR, by R. S. Gnevysheva, 6 pp.
RUSSIAN, per, Solnechnyye Dannyye, No 7, 1960,
pp 65-68. 9667420

FTD-TT-62-1429

Mode of Propagation of Ultrashort Waves
Through the Troposphere, by Milenko Argirovic,
16 pp.
CROATIAN, per, Tehnika, Vol XV, No 7, 1960,
pp 1247-1253. 9667339

FTD-TT-62-1138

Scientific
Biology

The Copepod Fauna (Calanoida) and Zoogeographical Divisions of the North Pacific and Adjoining Waters, by K. A. Brodskiy.
RUSSIAN, bk, 1957.

Dept of Interior
QL1 E78 No 34

Biological Effects of Radiation and Problems of Radioactive Isotope Distribution, by A. V. Lebedinskiy, Yu. I. Moskalev, 187 pp.
RUSSIAN, bk, Biologicheskoe Deistvie Radiatsii i Voprosy Raspredeleniya Radioaktivnykh Izotopov, 1961, pp 1-8, 29-48, 55-118, 128-191. 9200978

AEC-Tr-5265

Effect of Ionizing Radiation of Plants, by I. M. Vasil'yev.
RUSSIAN, bk, Deistvie Ioniziruyushchikh Izlucheniya na Rasteniya, Moscow, 1962.

*AEC

Fauna of Russia and Adjacent Countries, by A. M. Nikol'skiy, 225 pp.
RUSSIAN, bk, Fauna Rossii i Sopredel'nykh Stran, 1918, 314 pp.

OTS 60-21813
PL-480

Physiological Adaptability of Fish to the Temperature of the Surrounding Medium, by N. S. Stroganov, 108 pp.
RUSSIAN, bk, Fiziologicheskaya Prisosoblyaemost' ryb k Temperatur Sredy, 1956.

OTS 61-31038
PL-480

The Sea Otter, 227 pp.
RUSSIAN, bk, Kalan, Moscow, 1947.

OTS 61-31057
PL-480

The Present State of the Fishery of the White Sea Herring and Its Biology, by B. M. Tambovtsev.
RUSSIAN, rpt, Materials for a Complex Study of the White Sea, I; Academy of Sciences of the USSR, 1957, pp 44-73.

Dept of Interior
SH211 E82 No 405

The Biology and Fishery of the Gulf of Kandalaksha Herring, by A. P. Vilson.
RUSSIAN, rpt, Materials for a Complex Study of the White Sea, I; Academy of Sciences of the USSR, 1957, pp 90-104.

Dept of Interior
SH211 E82 No 407

Terrestrial Mollusks of the Fauna of the USSR, by I. M. Likhachev, E. S. Rammel'meier, 574 pp.
RUSSIAN, bk, Nazemnye Molyusski Fauny SSSR, Moscow, 1952.

OTS 60-21816
PL-480

Scientific
Biology (Contd)

Freshwater Fishes of the USSR and Adjacent Countries, by Leo S. Berg, 504 pp.
RUSSIAN, bk, Ryby Presnykh vod SSSR i Sopredel'nykh Stran, Moscow, 1948.

OTS 61-31218
PL-480

Theoretical Forest Biogeophysics, by G. F. Khil'mi, 155 pp.
RUSSIAN, bk, Teoreticheskaya Biogeofizika Lesa, 1957, 205 pp.

OTS 61-31089
PL-480

Mammals of Eastern Europe and Northern Asia, by S. I. Ognev, 590 pp.
RUSSIAN, bk, Zveri Vostochnoy Evropy i Severnoy Azii, Vol II, Moscow, 1931.

OTS 60-21819
PL-480

Changes in the Pigmentation and Embryogenesis in Peking Ducks Under the Influence of the Introduction of Alien Cell Nuclei, by A. A. Chilingaryan, E. F. Pavlov, et al.
RUSSIAN, per, Agrobiologiya, No 6, 1960, pp 903-910.

*USDA

To the Problem of Heterogeneity of Cells Originating From Division of a Mother Cell, by A. Lengerova, 16 pp.
RUSSIAN, per, Chekhoslovatskaya Biologiya, Vol II, No 1, 1953. 9201270

AEC-Tr-5423

First Discovery of Triassic Bryozoans in the USSR, by V. P. Nekhoroshev.
RUSSIAN, per, Dok Ak Nauk SSSR: Geologiya, No 3, 1949, pp 459-461.

Dept of Interior
QE3 E57 No 102

Systematics of Bryozoans of the Order Cryptostomata, by G. G. Astrova.
RUSSIAN, per, Dok Ak Nauk SSSR: Paleontologiya, No 4, 1956, pp 661-664.

Dept of Interior
QE3 E57 No 103

The Distribution of Some Mass Species of Copepods in the Indian Ocean, by M. E. Vinogradov.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXL, No 1, 1961, pp 219-222.

Dept of Interior
QL1 E78 No 42

Use of Radioactive Tracers in Studying the Ability of Synanthropic Flies to Fly Across Water Barriers, by B. L. Shura-Bura, O. I. Sukhomlinova, et al, 17 pp.
RUSSIAN, per, Entomologicheskoye Obozreniye, Vol XLI, No 1, 1962, pp 99-108.

JPRS 16616

Scientific
Biology (Contd)

Recovery of EEG After Hypothermia, by P. M. Starkov,
Ye. K. Aganyants.
RUSSIAN, per, Fiziol Zhur SSSR, imeni I. M. Sechenova,
Vol XLVIII, No 6, 1962, pp 629-637.

*FTD-TT-62-1904

The 11 May 1962 Meeting of the Presidium of the
Academy of Sciences of the USSR Devoted to the
Problem of Molecular Biology, by I. V. Sukhanova,
13 pp.
RUSSIAN, per, Iz Ak Nauk SSR, Ser Biol, No 5,
Sep/Oct 1962, pp 806-809.

JPRS 16987

On the Question of the Origin of Tektites, by
I. Ye. Starik, R. V. Sobotovitch, M. M. Shats.
RUSSIAN, per, Meteoritika, No 22, 1962, pp 97-102.

NASA TT F-113

Chlorophyll Production by Purple and Green Bacteria
in Photoautotrophic and Photoheterotrophic Develop-
ment, by L. V. Moshentseva, E. N. Kondrat'yeva, 8 pp.
RUSSIAN, per, Mikrobiolog, Vol XXXI, No 2, 1962,
pp 199-202. 9201246

AEC UCRL Tr 870

An Attempt at a General Soil Classification, by
E. N. Ivanova, 29 pp.
RUSSIAN, per, Pochvovedenie, No 6, 1956, pp 82-102.
9068480

OTS 61-11495
PL-480

Bionics and Cetaceans, by A. G. Tomilin, 5 pp.
RUSSIAN, per, Priroda, No 10, 1962, pp 101-103.

JPRS 17079

Effect of Soil Temperature on the Content of
Different Forms of Boron in Bean Plants
(Phaseolus Vulgaris L.), by T. A. Paribok,
M. Ya. Shkol'nik, 14 pp.
RUSSIAN, per, Trudy Botanicheskogo Inst imeni
V. L. Komarova, Ak Nauk SSSR, Eksperimental'naya
Botanika, Vol IV, No 15, 1962. 9201248

AEC-Tr-5488

Deep Sea Fishes of the Far-Eastern Seas, by
Theodor S. Rass.
RUSSIAN, per, Trudy Zool Inst, Ak Nauk SSSR, Vol VI,
1956, p 2.

Dept of Interior
SH211 E82 No 399

Problems of Radiobiology, 336 pp.
RUSSIAN, per, Voprosy Radiobiologii, Vol III,
1960.

OTS 61-31017
PL-480

On the Formation of Benthic Fauna in Artificial
Water Reservoirs and on Some Problems of the
Evolutionary Theory Related to These Processes,
by G. B. Gavrilov.
RUSSIAN, per, Zhur Obshch Biol, Vol XXII, No 3,
1961, pp 233-240.

*USDA

Scientific
Biology (Contd)

Parasitological Factors in the Natural Foci of
Taiga Encephalitis, by Ye. N. Pavlovskiy, 5 pp.
RUSSIAN, per, Zool Zhur, Vol XIX, No 2, 1940,
pp 333-335.

U.S. Army Biol Lab

The Place of Hydrobiology in the Fulfillment of
the Seven-Year-Plan, by V. I. Zhadin.
RUSSIAN, per, Zool Zhur, Vol XXXVIII, No 9,
1959, pp 1282-1291.

*USDA

Cyphogenia Aurita Pall Larva (Tenebrionidae,
Coleoptera), by S. I. Keleinikova, 4 pp.
RUSSIAN, per, Zool Zhur, Vol XL, No 5, 1961.

CSIR Tr No 244

The Future of Bulgarian Animal Husbandry, by
Lyubomir Savov, 11 pp.
BULGARIAN, per, Zhivotnovudstvo, Vol XVI,
No 11, 1962, pp 42-46.

JPRS 16861

On Basic Research in Biology, by Li Ju-Ch'i,
8 pp.
CHINESE, per, K'o-hsueh Tung Pao, No 5,
May 1956, pp 93, 94.

JPRS 17174

Radioactive Contamination of Aquatic Media
and Organisms by Y. Fontaine, 176 pp.
FRENCH, rpt, Commissariat a l'Energie Atomique.
Centre d'Etudes Nucleaires de Saclay, Report
No CEA-1588, 1960. 9201264

AEC-Tr-5358

Direct Study of the Contamination of Soils in
Place by Autoradiographic Method, by
Pierre Bovard, Andre Grauby, 9 pp.
FRENCH, per, Bulletin d'Information Scientifique
et Technique, No 53, 1961, pp 2-6. 9201267

AEC-Tr-5452

Study of the Metabolism of Calcium in Rate
Based on the Use of Calcium-45. III. The Relation
Between the Different Processes in the Normal Rat,
by J. P. Aubert, M. S. Moukhtar, G. Milhaud.
FRENCH, per, Revue Francaise d'Etudes Cliniques et
Biologiques, Vol VI, 1961, pp 1034-1043.

*AEC UCRL Tr 884

Report on the Status of Automatic and Continuous
Warning Equipment Against Biological Warfare
Agents in the Air.
GERMAN, rpt.

U.S. Army Biol Lab

Erythrocytes as an Example of Biological
Adaptation, by P. G. Frick, 7 pp.
GERMAN. 9201252

AEC-Tr-5499

Scientific
Biology (Contd)

Comparison of the Injection of S³⁵ -Sulfide and S³⁵-Sulfate in the Body Pigment of Rats, by Marianne Waldschmidt.
GERMAN, per, Biochemische Z, Vol CCCXXXV, 1962, pp 400-407.

*AEC

Method of Preparation of Silica-Containing Dusts for Use in Biological Research, by E. Occella, G. Maddalon.
ITALIAN, per, Med Lavoro, Vol LII, No 5, 1961, pp 382-390.

U.S. Army Biol Lab

Studies on the Stock of Pomeranian Bay Spawning Spring Herring in 1950-1954, by Wlodzimierz Fesolowicz, 15 pp.
POLISH, per, Prace Morskiego Instytutu Rybackiego w Gdyni, No 9, 1957, pp 151-173. 9068475

OTS 60-21283
PL-480

The Importance of Fishery Statistics to the Study of Marine Fishery Biology With Special Regard to the Adriatic Sardine, by A. Kotthaus, 21 pp.
SERBO-CROATIAN, bk, Godisnjak, Vol I, 1938.

OTS 60-21660
PL-480

The Food of Sardines in the Metamorphotic Stage, by A. Ercegovic, 12 pp.
SERBO-CROATIAN, bk, Godisnjak, Vol II, 1939/1940.

OTS 60-21658
PL-480

The Spawning and Spawning Areas of the Sardine in the Adriatic Sea From 1947-1950, by T. Gamulin, 72 pp.
SERBO-CROATIAN, bk, Izvjesca, Vol IV, No 40, 1954.

OTS 60-21659
PL-480

Seed Stimulation, by D. Afanasijev, 15 pp.
SERBO-CROATIAN, per, Sumarski List (Zagreb), Vol LXXXII, No 5/6, 1958, pp 163-176. 9201011

OTS 60-21636
PL-480

The Action of Abiotic Factors on Gypsy Moth Population in the Forest Jakovacki Kljuc in 1958, by M. Maksimovic, et al., 7 pp.
SERBO-CROATIAN, per, Zastita Bilja No 52/53, 1959, pp 37-44. 9201012

OTS 60-21662
PL-480

The Appearance of Polyhedry in the Gypsy Moth During the First Year After the End of Massive Population, by L.J. Vasiljevic, 9 pp.
SERBO-CROATIAN, per, Zastita Bilja (Beograd), No 52/53, 1959, pp 79-87. 9201012

OTS 60-21663
PL-480

Bacteria for Better Soils, by Walfredo Vicente, 5 pp.
SPANISH, np, El Mundo, 2 Dec 1962, pp 4, 5.

JPRS 17158

Scientific
Chemistry

Experimental Studies in Abyssal Processes [Symposium Volume]; General Problems in Volcanism, 26 pp.
RUSSIAN, rpts, Moscow, 1962, p 134, 238.

MEB

The Effect of Composition of Water on Corrosion of Zirconium Alloys at High Temperatures and Pressures, by I. L. Rozenfel'd, Yu. P. Ok'khovnikov, 16 pp.

RUSSIAN, Paper Presented at the Conference on the Corrosion of Reactor Materials, Salzburg, Austria, 4-9 Jun 1962. 9200071

AEC-Tr-5374

Investigation of Evaporation Velocity of Metal-Oxide Samples Heated by Electric Current, by N. M. Voronov, A. S. Danilin, 15 pp.

RUSSIAN, Paper Presented at the Symposium on Thermodynamics of Nuclear Materials, Vienna, 21-25 May 1962. 9200069

AEC-Tr-5416

Heats of Formation of Intermetallic Compounds of Pu With Al and Fe and of U With Fe, by

V. V. Akhachinskiy, L. M. Kopytin, et al, 13 pp.

RUSSIAN, Papers Presented at the Symposium on Thermodynamics of Nuclear Materials, Vienna, 21-25 May 1962. 9200972

AEC-Tr-5451

The Photodisintegration of Oxygen. I., by

A. N. Gorbunov, V. A. Osinova, 27 pp.

RUSSIAN, rpt, Fizicheskiy Institut imeni P. N. Lebedeva An SSSR, 1962. 9200969

AEC-Tr-5395

Detection and Analysis of Rare Elements, by

A. P. Vinogradov, D. I. Ryabchikov, 744 pp.

RUSSIAN, bk, Metody Opredelniya i Analiza Redkikh Elementov, 1961. 9200538-V

OTS 62-11021
PL-480

Surface Chemical Compounds and Their Role in Adsorption, by A. V. Kiselev.

RUSSIAN, rpt, Konferentsiya po Adsorbtsii Posviashdennaya Zoo Leliiu Moskovskogo Gosudarstvennogo Universiteta, (1955-1955), 1957, pp 367.

*FTD-TT-63-83

Research in the Radiation Chemistry of Petroleum Hydrocarbons and the Use of Nuclear Radiation in the Petroleum-Refining Industry and Petrochemical Synthesis, by A. V. Topchiyev, K. P. Lavrovskiy, 18 pp.

RUSSIAN, bk, Peroabotka Nefti i Gaza Neftekhimiya, Vol III, Moscow, 1961, pp 345-354. 9667336

FTD-TT-62-1047

Scientific
Chemistry (Contd)

Soviet Experiments With Plutonium-239, by
A. V. Lebedinskiy, Yu. I. Moskaleva, 86 pp.
RUSSIAN, bk, Plutoni-239 Raspredeleniye,
Biologicheskoye Deystviye, i Uskoreniye
Vyvedeniya, Moscow, 1962, pp 1-168.

JPRS 16900

Radiation Heat Cracking of Hydrocarbons,
by A. V. Topchiyev, L. S. Polak, et al.
RUSSIAN, bk, Radioaktivnyye Izotopy i
Yadernyye Izlucheniya v Narodom Khozyystve
SSSR, Moscow, Vol I, 1961, pp 206-210.

*FTD-TT-62-1930

The Influence of Chemical Composition and
Admixtures on the Combustion of Fuel in Jet
Engines, by Ya. M. Paushkin, R. V. Sychev,
25 pp.
RUSSIAN, bk, Sbornik Trudov, Mezhvuzovskiy
Soveshchaniya Po Khimii Nefti, 1960, pp 293-314.
9667389

FTD-TT-62-743

On the Burning Velocity of Atomized Fuels, by
V. Ya. Basevich, 12 pp.
RUSSIAN, bk, Sgoraniye i Smeseobrazovaniye v
Dizelyakh, Moscow, 1960, pp 10-18. 9667348

FTD-TT-62-1028

Technology of Ceramics and Refractories, by
P. P. Budnikov, A. S. Berezhnoy, et al.
RUSSIAN, bk, Tekhnologiya Keramiki i Ogneuporov,
Moscow, 1962, pp 374-396, 400-409, 421-429.

*FTD-TT-63-104

Viscosity Characteristics of Mixtures of Oils
of Different Chemical Nature and of the Con-
sistent Lubricants Obtained by Thickening
Them, by D. S. Velikovskiy, P. I. Kazhdan,
13 pp.
RUSSIAN, bk, Trudy Tret'yey Vses Konferentsii no
Treniyu i Iznosu v Mashinakh, Vol III, 1960,
pp 248-255. 9667343

FTD-TT-62-925

On the Physiological Role of Boron, by
M. Ya. Shkol'nik, E. A. Solov'yeva-Troitskaya,
13 pp.
RUSSIAN, per, Botan Zhur, Vol XLVII, No 5,
1962. 9201250

AEC-Tr-5492

The Excitation of Rotation Levels During
Alpha-Decomposition, by V. G. Nosov, 7 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CIII, No 1,
1955, pp 65-67. 9201238

AEC UCRL Tr-258

Scientific
Chemistry (Contd)

Detection of the Magnetic Ordering in the BiFeO_3 Ferroelectric by Means of Neutron Diffraction Study, by S. V. Kiselev, R. P. Ozerov, et al. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLV, No 6, 1962.

*Navy/NRL/

Diffusion of Tellurium in Germanium, by V. D. Ignatkov, V. E. Kosenko, 10 pp. RUSSIAN, per, Fizika Tverdovo Tela, Vol IV, No 6, 1962, pp 1627-1631. 9201253

AEC-Tr-5532

Significance of Boron in Nucleic Acid Metabolism, by N. Ya. Shkol'nik, A. N. Mayevskaya, 12 pp. RUSSIAN, per, Fiz Rasteniy, Vol IX, No 3, 1962. 9201249

AEC-Tr-5491

Methods of Calculation in Molecular Spectroscopy, by L. A. Gribov, 7 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Vol XXVI, No 10, 1962, pp 1226-1230.

JPRS 17176

Thermal Decomposition and Combustion of Ammonium Perchlorate, by A. A. Shidlovskiy, L. F. Shmagin. RUSSIAN, per, Iz VUZ, Khim i Khim Tekh, Vol V, No 4, 1962, pp 529-532.

*FTD-TT-62-1902

Production of Liquid Oxygen in a Medium-Pressure System With Circulating Nitrogen, by A. G. Golovintsov, M. B. Stolper, A. M. Arkharov. RUSSIAN, per, Khim Mash, No 5, 1962, pp 17-20.

*FTD-TT-63-113

Use of Discharge in a Hollow Cathode for Determining Impurities in ZrO_2 , by Yu. I. Korovin, L. V. Lipis, 8 pp. RUSSIAN, per, Optika i Spektroskopiya, Vol V, 1958, pp 334-337.

AEC-Tr-5262

Hydrolytic Behavior of Plutonium in Aqueous Solutions, by A. I. Moskvina, et al. RUSSIAN, per, Radiokhimiya, No 1, 1962, pp 73-81.

*AEC

Determination of Radioactive Cesium by the Ferrocyanide Method, by A. V. Gel'man, et al. RUSSIAN, per, Radiokhimiya, No 1, 1962, pp 107-110.

*AEC

Mechanism of Zirconium Extraction by Organophosphorus Compounds, Part I, by G. P. Nikitina, M. F. Pushlenkov, 15 pp. RUSSIAN, per, Radiokhimiya, Vol IV, 1962, pp 137-147.

AEC-Tr-5297

Scientific
Chemistry (Contd)

Determination of Several Rare-Earth Elements by
Flame Photometry, by N. S. Poluyektov,
H. P. Nikonova, 14 pp.
RUSSIAN, per, Ukrain Khim Zhur, Vol XXV, 1959,
pp 217-225.

AEC-Tr-5291

Study of the Interaction of Hydrogen Peroxide
With Calcium and Barium Peroxides by the Isotope
Method, by V. A. Lunenok-Burmakina, A. P. Potemskaya,
9 pp.
RUSSIAN, per, Ukrain Khim Zhur, Vol XXVIII, No 1,
1962, pp 48-52.

Navy Tr 3287
NRL 906

Nucleic Acids and the Problem of Protein Bio-
synthesis, by A. N. Belozerskiy.
RUSSIAN, per, Vest Ak Nauk SSSR, No 10, 1962,
pp 26-35.

*USDA

Synthesis of Polyferroorganosiloxanes and
Polyferroaluminosiloxanes, by K. A. Andrianov,
T. N. Ganina, 9 pp.
RUSSIAN, per, Vysokomolekulyarnye Soedineniya,
Vol IV, No 5, 1962, pp 678-682.

Navy Tr 3290
NRL 920

Chlorine and Hydrogen Explosion Temperatures
and Limits in Hydrogen Chloride, by
T. I. Kunin, V. I. Serdyukov, 12 pp.
RUSSIAN, per, Zhur Obshchey Khim, Vol XVI,
No 9, 1946, pp 1421-1230. 9667409

FTD-TT-62-1415

A Method of Obtaining Boron Nitride, by
G. V. Samsonov, H. S. Koval'chenko.
RUSSIAN, Patent No 129647, Appl No 641773/23,
19 Oct 1959, pp 1, 2.

*FTD-TT-63-65

Method of Producing Large Diameter Mono-
crystalline Disks, by L. M. Belyayev,
C. F. Dobrzanskiy.
RUSSIAN, Patent No 147576, Appl No 736971,
Class 12c, Section 2, 1961, pp 1, 2.

*FTD-TT-63-63

The Application of Phosphorus Fertilizer
on Calcareous Soil of Kiangsu Province, by
Liu Kuang-sung, Chou Wei-chin, 11 pp.
CHINESE, per, T'u-Jang, No 9, 1961,
pp 13-16.

JPRS 17197

Scientific
Chemistry (Contd)

The Formation of Lanthionine During Supercontraction,
Permanent Setting and Irreversible Denaturation of
Proteins Containing Cystine, by H. Zahn, F. W. Kunitz,
18 pp.
FRENCH, rpt, Jul 1961.

CSIR Tr No 250

Application of Decay Reaction Tel^{132} I^{132} in the
Preparation of Labelled Molecules, by Jean-Pierre
Adloff, Madeleine Adloff-Bacher.
FRENCH, rpt, Application de la Desintegration Tel^{132}
B- I^{132} a la Preparation de Molecules Marquees,
Paper No 12.

*AEC

Contribution to the Study of the Preparation of
Tellurium-132 and Iodine-132, by R. Stiennon-Bovy,
G. Haegeman-Geladi.
FRENCH, rpt, Contribution a l'Etude de la Preparation
du Tellure-132 et de l'Iode-132, Paper SM-32/40.

*AEC

Permissible Performance Limits for Combustible
Element in the CO_2 Graphite Reactor, by
A. Gauvenet, M. Salesse.
FRENCH, rpt, Societe Europeenne d'Energie Atomique
Cannes, 8-12 Oct 1962.

*AEC

Working and Control Methods in the Carbonization
Experiments Conducted at the Marienau Experi-
ment Station, by Pierre Foch.
FRENCH, rpt, Technique de l'Industrie du Gaz en
France, 1956.

Dept of Interior
TN7 E57 No 599

Reactions of Metal Carbides With Water Vapor and
Organic Vapors, by J. de Villelune, 55 pp.
FRENCH, per, Annales Chimie, Vol VII, No 12, 1952,
pp 265-310. 9201384

AEC-Tr-5515

A Study of the Gravimetric Determination of
Phosphoric Acid in the Form of Ammonium, by
Michel Frey, 16 pp.
FRENCH, per, Bulletin de la Societe Chim de France,
1950, pp 685-690.

CSIR Tr No 249

Behavior of Sulphur Under the Influence of a Shock
Wave, by J. Berger, S. Joigneau, G. Rottet.
FRENCH, per, Comptes Rendus Academic des Sciences,
Vol CCL, 27 Jun 1960, pp 4331-4333.

*AEC

Cement Sand Moulding, by J. Le Borgne, M. Jaumain.
FRENCH, per, Fonderie, Vol CLXXXV, Jun 1961,
pp 209-219.

BISI 2810

Scientific
Chemistry (Contd)

Determination of Nitrogen and Identification of
Aluminium Nitride in Case Steel, by V. Kuhn,
P. Detrez.

FRENCH, per, Memoires (Les) Scientifiques de la
Revue de Metallurgie, Vol LIX, Jun 1962,
pp 405-415.

BISI 3014

Description of Fiber Texture, by H. J. Bunge.
GERMAN, rpt, Deutschen Akademie der Wissenschaften
zu Berlin, Vol I, No 1, 1959.

*AEC

Constitution of CR-Fe-C System With the Range of
Technical Ferro-Chromiums, by W. Pepperhoff.
GERMAN, per, Archiv Eisenhüttenwesen, Vol XXXIII,
No 9, 1962, pp 611-616.

*HB 5750

Critical Analysis of the Formula for Text
Specimens of Rock, by Wolfgang Dreyer.
GERMAN, per, Bergbautechnik, Vol XII, No 5, 1962,
pp 265-272.

Dept of Interior
TN7 E57 No 567

Synthetic Emeralds, Parts 1-4, by W. F. Eppler.
GERMAN, per, Deutsche Goldschmiede Zeitung,
No 4-7, 1958, pp 193-197, 249-251, 327-329, 381-385.

*AEC

Selected Articles From the German Periodical
Helvetica Chimica Acta.

Vol XVII, 1934.
The Electrolytic Enrichment of the Heavy
Hydrogen Isotope. (Paper I); by H. Erlenmeyer,
H. Gartner, (pp 30, 31).

*AEC

A Laboratory Installation for the Electrolytic
Fractionation of Hydrogen Isotopes. (Paper II),
by E. Erlenmeyer, H. Gartner, (pp 1226-1231).

Vol XVIII, 1935, pp 419-426.
A Laboratory Installation for the Electrolytic
Fractionation of Hydrogen Isotopes. (Paper III),
by E. Erlenmeyer, H. Gartner.

*AEC

Vol XLII, 1959, pp 1125-1236.
A New Method of Determining Oxygen Isotopes
in Organic Compounds, by H. Dahn, H. Moll,
et al.

*ACSI I-8139
ID 2216558

The Situation and Prospects of Chemistry --
Especially Organic Chemistry -- in the German
Federal Republic, by R. Panning, 14 pp.
GERMAN, per, Journal fuer Praktische Chemie,
Vol X, Series 4, 1960, pp 71-89.

ACSI I-1673-D
ID 2203208

Scientific
Chemistry (Contd)

The Situation and Prospects of Organic Chemistry
in the Bulgarian People's Republic, by Dimiter
Ivanoff, 8 pp.
GERMAN, per, Journal fuer Praktische Chemie,
Vol X, Series 4, 1960, pp 102-112.

ACSI I-1673-C
ID 2203208

Pressure Stability of Salt, by Wolfgang Dreyer.
GERMAN, per, Kali und Steinsalz, Vol VII, 1961,
pp 234-241.

Dept of Interior
TN7 E57 No 570

The Present State of Mast Cell Research (1960),
by G. Niebauer, 18 pp.
GERMAN, per, Klinische Wochenschrift, Vol XXXVIII,
1960, pp 673-679. 9201251

AEC-Tr-5498

On the Zonal Electrophoresis of Proteins at
Increased Potential Gradients, by H. Michl,
10 pp.
GERMAN, per, Monatshefte fuer Chemie, Vol LXXXV,
1954, p 1251. 9200967

AEC-Tr-5482

Studies on the Vanadium-Molybdenum-Carbon System,
by Erwin Rudy, Elisabeth Rudy, 33 pp.
GERMAN, per, Planseeberichte fuer Pulvermetallurgie,
Vol X, 1962, pp 42-64. 9201277

AEC-Tr-5459

Determination of Oxygen and Nitrogen in Titanium
Samples by Means of a Condensed Spark in a
Vacuum, by J. Romand, H. Balloffet, 13 pp.
GERMAN, per, Spectrochemica Acta, Vol XV, 1959,
pp 454-460.

AEC-Tr-5285

On the Penetration of a Free Gas Jet Into the
Surface of a Liquid, by J. Maatsch.
GERMAN, per, Technische Mitteilungen Krup
Torschungsberichte, Vol XX, No 1, 1962.

*BISI E 3064

Fundamentals of the Conductimetric Deter-
mination of Carbon, by W. Schmidts, W. Bartscher.
GERMAN, per, Z fuer Analytische Chemie, Vol CLXXXI,
1961, pp 54-59.

BISI 2907

The Fluorination of Silver and Copper, by
Otto Ruff, Manfred Giese, 11 pp.
GERMAN, per, Z fuer Anorganische und Allegemeine
Chemie, Vol CCXIX, 1934, pp 143-148.

AEC-Tr-5294

Reactions and Equilibrium in Alkali-Hydroxide Melts,
Part III. Peroxide Equilibrium, by Herman Lux,
Rudolph Kuhn.
GERMAN, per, Zeitschrift fuer Anorganische und
Allgemeine Chemie, Vol CCXCVIII, No 5/6, 1959,
pp 285-301.

*Navy/NRL

Scientific
Chemistry (Contd)

Heat of Hydration and Vapor Pressure of Thorium Sulfate Hydrates, by I. Koppel, 12 pp.
GERMAN, per, Z fuer Anorganische Chemie, Vol LXVII, 1910, pp 293-301. 9200079

AEC-Tr-5385

The Effect of Oxygen Hydrogen, and Water Vapor on the Electrical Conductivity of Barium Oxide and Bariumstrontium Oxide, by J. Rudolph.
GERMAN, per, Z fuer Naturforschung, Vol XIIIa, 1958, pp 757-767.

*AEC

Enrichment of B10 Isotope by Chemical Exchange, by Istvan Kiss, Istvan Opauszki, 7 pp.
HUNGARIAN, per, Magyar Kemia Folyoirat, Vol LXIV, 1958, pp 7, 8. 9200075

AEC-Tr-5383

Application of Polarography in Organic Chemistry, by Petr Zuman.
HUNGARIAN, per, Magyar Kemikuosk Lapja, Vol XVII, No 1, 1962, pp 8-11.

*AEC

Labelling Human Serum-Albumin, Insulin and Fibrinogen With Bromine-82 by Electrochemical Means, by U. Rosa, G. A. Scassellati, G. Sorin.
ITALIAN, rpt, Marquage au Brome-82 de la Serum-Albumine Humaine, de L'Insuline et du Fibrinogene par Voie Electrochimique, Paper SM-32/50.

*AEC

Observations on the Electrical Behaviour of Organic Solutions on Salts of Aliphatic Tria-Kylamines, by C. Botre, G. Scibona.
ITALIAN, rpt, Osservazioni Sul Comportamento Elettrochimico di Soluzioni Organiche di Sali di Trialchilamine Alifatiche.

*AEC

Solutions of Alkali Metals in Liquid Ammonia, I. Thermodynamic Measurements, by Leonello Paoloni, 22 pp.
ITALIAN, per, Gazzetta Chimica Italiana, Vol XC, 1960, pp 1682-1699. 9201239

AEC UCRL Tr 861(L)

Solutions of Alkali Metals in Liquid Ammonia, II. Electrochemical Measurements, by Leonello Paoloni, 11 pp.
ITALIAN, per, Gazzetta Chimica Italiana, Vol XCI, 1961, pp 121-144. 9201239

AEC UCRL Tr 861(L)

Solutions of Alkali Metals in Liquid Ammonia. III. Magnetic Measurements, by Leonello Paolini, 22 pp.
ITALIAN, per, Gazzetta Chimica Italiana, Vol XCI, 1961, pp 412-427. 9201239

AEC UCRL Tr 861(L)

Scientific
Chemistry (Contd)

Methods of Organic Qualitative Analysis, by
Noboru Sugiyama, 16 pp.
JAPANESE, per, Bunseki Kagaku, Vol XI, 1962,
pp 587-595. 9200977

AEC-Tr-5419

Corrosion of Stainless Steel Tubes by Liquid
Sodium Systems (I) Thermal Convectional Corrosion
Testing Apparatus, by Hideo Atsumo, 17 pp.
JAPANESE, per, Journal of the Atomic Energy
Society of Japan, Vol IV, Feb 1962, pp 94-99.
9200077

AEC-Tr-5378

Porus Structure of Active Carbons. V. The
Adsorption Potential Energy of Nitrogen, Methane,
Carbon Dioxide and Ethylene, by Akie Turuizumi.
JAPANESE, per, Ninpon Kagaku Zasshi, Vol LXXX,
1959, pp 956-959.

*AEC

A Study of Sodium Orthoferrites. Part I.
Formation of Orthoferrites, by Shoichi Okamoto,
Takeshi Takei, 11 pp.
JAPANESE, per, Rikagaku Kenkyujo Hokoku, Vol XXXVI,
No 6, 1960, pp 694-699. 9679014

Navy Tr 3288/
NRL 918

Testing of Bituminous Coal by Plastometric
Method, by M. Chorazy, J. Nadziakiewicz, 14 pp.
POLISH, per, Biuletyn Instytutu Naukowo-
Badawczego Przemyslu Węglowego, No 19, 1947,
pp 1-19. 9068472

OTS 60-21280
PL-480

The Physico-Chemical Problems of the Magnetizing
Roasting of Iron Ores, by J. Trau.
POLISH, per, Hutnik, Vol XXVII, No 5, 1960,
pp 188-195.

BISI 2397

Production of I¹³² From Irradiated UF₄, by
M. Barrachina Gomez.
SPANISH, rpt, Produccion de I¹³² a Partir de
Tetrafluroro de Uranio Irradiado, Paper SM-32/41.

*AEC

Characteristics of the Polysaccharide-Containing
Fraction From Pasteurella Pestis, by Ye. E. Bakhrakh,
V. D. Yegorova, et al, 11 pp.
UNKNOWN.

U. S. Army
Biological Lab

Scientific
Electricity

Principles of Radiochemistry, by I. Ye. Starik.
RUSSIAN, bk, Osnovy Radiokhimii, 1960, 459 pp.

*AEC

Problems of Reliability of Electric Motors,
Part I, by N. A. Tishchenko.
RUSSIAN, per, Elektrichestvo, No 11, 1961.
pp 7-14.

*FTD-TT-63-35

Explosives and Fuse Materials.
SWEDISH, bk, Sprang-och Tandmedel, 1961,
pp 7-32.

*ACSI I-8138
ID 2216557

Electronics

Safety Measures Recommended for Work on Radio-
Frequency Generator Installations, by V. A. Krylov,
A. P. Solovey, 18 pp.
RUSSIAN, bk, Bezopasnost Truda pri Rabote Na
Ustanovkakh s Generatorami Energii Vysokikh i
Sverkhvysokikh Chastot, 1961, pp 3-17. 9667418

FTD-TT-62-339

Biological Radio Communications, by B. B. Kazhinskiy.
RUSSIAN, bk, Biologicheskaya Radiosvyaz', Kiev,
1962, 168 pp.

*FTD-TT-62-1923

Electro-Erosion Machining of Metals, by
Ye. M. Levinson.
RUSSIAN, bk, Elektroyerozionnaya Obrabotka Metallov,
Leningrad, Lenizdat, 1961, pp 5-19, 63-97, 127-180.

*FTD-TT-63-105

Basic Data on Vibro-Arc Surfacing, by A. A. Spiridonov,
A. A. Semkin, 13 pp.
RUSSIAN, bk, Novoye Oborudovaniye Dlya Avtomaticheskoy
Vibrodogovoy, Moscow-Sverdlovsk, Mashgiz, 1961,
pp 5-14. 9667378

FTD-TT-62-1250

Selected Articles From the Russian Book
Promyshlennaya Aerodinamika, Vol XVII, 1960.
9667423

FTD-TT-62-696

A System for Calibrating Microphones at High
Sound-Pressure Levels, by N. N. Pisarevskiy,
T. V. Snyshlyayeva, 14 pp.

An Experimental Study of Mufflers in the Form
of Pipes With Branches, by R. D. Filippova,
Ye. Ya. Yudin, 14 pp.

Scientific
Electronics (Contd)

Selected Articles From the Russian Book
Promyshlennaya Aerodinamika, Vol XVII, 1960.
9667423 (Contd)

FTD-TT-62-696

An Electronic Correlograph for Acoustic
Measurements, by N. N. Pisarevskiy, 20 pp.

Using a Ring of Ferronagnetic Tape in
Spectral Analysis of Noise, by L. G. Khobets,
15 pp.

Aerodynamic Industry, 65 pp, (pp 54-107).

Remote Monitoring and Control Apparatus for
Systems With Dispersed Objects, by Ya. V. Babicheva,
29 pp.

RUSSIAN, bk, Promyshlennaya Telemekhanika, 1960,
pp 218-235. 9667357

FTD-TT-62-1042

On the Electrical Breakdown of Dielectrics by
I. G. Nekrashevich, I. A. Bakuto.
RUSSIAN, per, Doklady, Ak Nauk Belorusskogo SSR,
Vol VI, No 1, 1962, pp 26-30.

*FTD-TT-63-5

Determining Characteristics of a Trans-
portation Network by the Method of
Successive Analysis of Variants, by O. O. Bakayev.
RUSSIAN, per, Dopovidi Akademii Nauk Ukrain RSR,
No 4, 1962, pp 469-472.

*RAND

Choice of Coefficients of Redundancy and Calcu-
lation of Electromagnetic Mechanisms of Pre-
scribed Reliability, by Ya. A. Rips.
RUSSIAN, per, Elektrichestvo, No 4, 1961,
pp 76-81.

*FTD-TT-63-37

Steady-State Regimes of a Synchronous Generator
With Ionic Self-Excitation, by Sh. I. Lutidze,
O. K. Maglaperidze, 14 pp.
RUSSIAN, per, Elektronenergetika, Vol II, pp 94-104.
9667393

FTD-TT-62-1043

Mainline of Progress, by A. Shokin, 6 pp.
RUSSIAN, per, Izvestiya, 25 Nov 1962, p 5.

JPRS 17220

The Mechanism of Electric Breakdown of Thin
Layers of Solid Dielectric, by A. A. Vorob'yev,
et al.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Energet i Avtomat, No 4, 1962, pp 66-68.

*FTD-TT-62-1927

Scientific
Electronics (Contd)

Electronic Vibration Pickups for Measuring Vibration Amplitudes and Frequencies, by Yu. D. Korniyushkin. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, No 8, 1962, pp 909-913.

*FTD-TT-63-89

On Relaxation Processes in Dielectrics and Semiconductors by P. T. Oreshkin, S. B. Bykov. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 3, 1962, pp 65-73.

*FTD-TT-63-3

On the Use of Experimental Data in Calculating Reliability of Radioelectronic Equipment Based on the Poisson Distribution, by G. B. Linkovskiy. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Priborostroyeniye, No 5, 1961, pp 43-46.

*FTD-TT-63-38

Wonders of Microelectronics, by Vladimir Orlov, 7 pp. RUSSIAN, np, Pravda, 25 Nov 1962, p 3.

JPRS 17220

Application of Ferrites for Generation of Powerful High Voltage Pulses on Nano Second Duration, by Andreyev, Vanyukov, et al, 6 pp. RUSSIAN, per, Pribory i Tekh Eksper, No 3, May/Jun 1962, pp 89-92.

ACSI I-7036
ID 2216534

Light Meter, by N. E. Batarchukova. RUSSIAN, per, Priroda, No 5, 1962, pp 95-97.

*519th MI Bn
I-8064
ID 2216544

Biocurrents From a Tape Recorder, by V. Mikhail'chenko, S. Tsikora, 5 pp. RUSSIAN, np, Sovet Molodezh, No 139, 17 Jul 1962, p 4. 9667419

FTD-TT-62-1553

A Thermodynamic Analysis of the Thermal System of a Magnetohydrodynamic Generator, by D. P. Gokhshteyn, 14 pp. RUSSIAN, per, Teploenergetika, No 3, 1962, pp 51-56. 9667385

FTD-TT-62-1326

On the Results of the Work of the Plenary Session of the Scientific Council on the Problem of Electric Power and Electrification, by S. V. Byvshev, 9 pp. RUSSIAN, per, Teploenergetika, No 11, 1962, pp 94-96.

JPRS 16843

Gigantic Radio-Eye. RUSSIAN, np, Trud, 8 Dec 1962, p 4.

*FTD-TT-63-110

Scientific
Electronics (Contd)

An Electronic Conversationalist, by Ye. Separina,
15 pp.
RUSSIAN, per, Znaniye-Sila, No 10, Oct 1962,
pp 29-32.

JPRS 16716

A Multichannel Telemetering System, by
S. V. Alekseyev.
RUSSIAN, Patent No 148,448, Application No
699474/26 28 Feb 1961, Class 21 C, 4650.

*FTD-TT-63-95

Modern Methods of Determining the Fatigue
Resistance of Motor Vehicle Components, by
M. Hanke, 13 pp.
CZECH, per, Automobil, No 2, 1962, pp 43-48.

ACSI I-3060
ID 2211693

A Simple Electronic Apparatus for the Coulometric
Determination of Small Quantities of Carbon in
Steel, by J. Hejduk, E. Rechziegel.
CZECH, per, Chemické Listy, Vol LV, No 9, 1961,
pp 1062-1067.

BISI 3007

Electric Propulsion.
CZECH, per, Prehled Technicke a Hospodarske
Literatury. Energetika a Elektrotechnika,
Vol XIX, No 2, 1962, p 79.

*FTD-TT-63-50

Influence of Components on the Reliability of
Radioelectronic Equipment, by Frantisek Hoff.
CZECH, per, Sdelovaci Technika, No 5, 1962,
pp 168-172.

*FTD-TT-63-39

Aid in Calculating Transient Responses, by
Jaronir Braun, 10 pp.
CZECH, per, Slaboproud Obzor, Vol XXII, No 4,
1961, pp 209-212. 9667421

FTD-TT-62-1464

Classifying the Degradation Phenomena Occurring
in Electrical Engineering Materials and Equipments
in Arduous Atmospheric Conditions, by Miroslav
Rychtera.
CZECH, per, Slaboproud Obzor, Vol XXIII, No 9,
1962, pp 511-517.

*ACSI I-7007
ID 2216529

Electron Optical System for the Production of
a Small Electron Probe, by T. Mulvey, 9 pp.
GERMAN, rpt, 4th International Conference on
Electron Microscopy, Berlin, 10-17 Sep 1958.

AEC-Tr-5275

Scientific
Electronics (Contd)

Theoretical Investigation of the Direct-Voltage Corona in a Conaxial Cylinder Field, by H. Prinz.
GERMAN, per, Archiv fuer Elektrotechnik, Vol XXXI, 1937, pp 756-766.

Dept of Interior
TN7 E57 No 602

Investigations Into the Practicability of Ceramic Electrets, by Erich Schleicher.
GERMAN, per, Experimentelle Technik der Physik, No 3, 1962, pp 224-230.

*FTD-TT-62-1925

Small Size Microwave Refractometer for Battery Operation, by W. Steffen, 22 pp.
GERMAN, per, Hochfrequenz-Technik und Elektro-Akustik, Vol LXX, No 2, 1961, pp 47-54.

CSIR Tr No 254

Long Distance Transmission of Information-- Prerequisite for Efficient Data Processing, by Helfried Portsmann, 6 pp.
GERMAN, per, Signal und Schiene, Vol VI, No 11, 1962, pp 407-409.

JPRS 17102

Production Planning by Computer for Second-Heat Rolling Mills, by A. F. Oberhofer, H. Kassnitz, H. K. Wenk.
GERMAN, per, Stahl und Eisen, Vol LXXXII, 19 Jul 1962, pp 1044-1053.

BISI 3008

New Pneumatic and Hydraulic Elements in Measurement and Control Technology, by V. Ferner, 15 pp.
GERMAN, per, Die Technik, No 7, 1954, pp 421-427.

525th MI Gr
I-1496
ID 2198560

Fundamental Consideration in the Back Scattering of Beta Rays, by H. Mori, S. Taira, 12 pp.
JAPANESE, per, Dunscki Kagaku, Vol X, 1961, pp 132, 133. 9201230

AEC KFK-Tr-114

Ultrahigh Vacuum Obtained by Means of Chromium, Pulverized by Electron Bombardment, by H. S. Mikhaylov, H. M. Presnyakova, O. M. Akynovych.
UKRAINIAN, per, Ukrayin Fiz Zhur, UKRSR, Vol VII, No 1, 1962, pp 73, 74.

*FTD-TT-63-88

Some Peculiarities of Particle Adsorption of Residual-Gas Components in an Ultrahigh Vacuum, by Yu. H. Ptushyns'kiy, B. O. Chuykov.
UKRAINIAN, per, Ukrayin Fiz Zhur, UKRSR, Vol VII, No 1, 1962, pp 79-81.

*FTD-TT-63-88

Scientific
Engineering

A Heat Radiation Calorimeter, by I. D. Semikin,
V. S. Kostogryzov.
RUSSIAN, bk, Avtomatizatsiya i Priborostroyeniye;
Institut Avtomatiki, UKSSR, No 2, 1961, pp 153-164.

*FTD-TT-63-64

The Influence of Reduced Pressure on Flame Propagation
and the Combustion Zone in Turbulent Flow, by S. A.
Gol'denberg, 25 pp.
RUSSIAN, bk, Goreniye Pri Ponizhennykh Davleniyakh i
Nekotoryye Voprosy Stabilizatsii Plameni v Odnofaznykh
i Dvukhfaznykh Sistemakh, Moscow, 1960, pp 24-42.
9667383

FTD-TT-62-948

The Effect of Pre-Vaporization on the Completeness
and Stability of Combustion of Atomized Fuel, by
V. Ya. Basevich, 20 pp.
RUSSIAN, bk, Goreniye Pri Ponizhennykh Davleniyakh i
Nekotoryye Voprosy Stabilizatsii Plameni v Odnofaznykh
i Dvukhfaznykh Sistemakh, Moscow, 1960, pp 71-85.
9667383

FTD-TT-62-948

Group Methods in Processing Machine Parts, by
A. Ya. Bel'chenko, G. G. Yatsenko.
RUSSIAN, bk, Gruppovyye Metody Obrabotki Detaley
Mashin, Moscow, 1961, pp 172-179.

*FTD-TT-63-47

Measuring the Parameters of Antenna Feed Installa-
tions, by A. Z. Fradin, Ye. V. Ryzhkov.
RUSSIAN, bk, Izmereniye Parametrov Antenno-Fidernykh
Ustroystv, Svyazizdat, Moscow, 316 pp, 1962, pp 266-272,
314-316.

*FTD-TT-63-42

Readjustable Automatic Lines From Modernized
Universal Machines for the Production of Taps, by
D. G. Yakovlev, O. F. Nudel'man.
RUSSIAN, bk, Perenalazhivayemye Avtomaticheskiye
Linii - Iz Modernizirannykh Universalnykh Stankov dlya
Izgotovleniya Metchikov, Moscow, 1962, pp 221-223.

FTD-TT-63-45

A Graphical-Band Method for the Construction of Contact
Networks, by V. N. Roginskiy.
RUSSIAN, bk, Problemy Peredachi Informatsii, No 6, 1960,
pp 34-45.

*FTD-TT-63-59

The Excavation of Coals and Minerals, by A. M.
Terpigorev, M. M. Protod'yakov.
RUSSIAN, bk, Razrushenie uglei i porod, Moscow
Ugletekhizdat, 1958, pp 103-136, 325-359, 375-391.

*RAND

Study of the Ignition of Homogeneous Fuel-Air Mixtures
by Compression and by an Incandescent Surface, by A. N.
Voinov.
RUSSIAN, bk, Sgoraniye i Smeseobrazovaniye v Dizelyakh,
Ak Nauk SSSR, Moscow, 1960, pp 37-52.

*FTD-TT-63-31

Scientific
Engineering (Contd)

Investigation of Mixture Formation in Engines With
Separate Vortex Combustion Chambers, by M. S.
Khovakh.

RUSSIAN, bk, Sgoraniye i Smeseobrazovaniye v Dizelyakh,
Ak Nauk SSSR, Moscow, 1960, pp 156-171.

*FTD-TT-63-31

Lubricating-Cooling Liquids for Cutting of Metals and
the Technology of its Application, by M. I. Klushina.
RUSSIAN, bk, Smazочно-Oklazhdayushchiye Zidikosti Pri
Rezanii Metallov i Tekh Primeneniya, Moscow, Mashgiz,
1961, pp 53-97, 112-141, 168, 169, 180-290.

*FTD-TT-63-105

Marine Self-Exciting Synchronous Generators, by
D. V. Vilesov, I. A. Ryabinin, 24 pp.

RUSSIAN, bk, Sudovyye Samovozbuzhdayushchiyesya

Sinkhronnyye Generatory, 1962, pp 3-13, 159-167, 179-180. JPRS 17252

Production Adaptability of Plastic Products, by Z. F.
Urazayev, B. M. Baranov, et al, 86 pp.

RUSSIAN, bk, Tekhnologichnost' Konstruktsii Izdeliy Iz
Plastmass RTM -814, 1957, 98 pp. 9679271

FTD-TT-62-249

Heat Exchange Measuring Apparatus by K. A. Mironov,
L. I. Shepetin.

RUSSIAN, bk, Tepoltekhicheskiye Izmeritel'nyye

Pribory, 2nd Edition, Mashgiz, Moscow, 1958, 896 pp.

*FTD-TT-63-16

Vibration Units in Machine Manufacture, by V. A.
Povidaylo, R. I. Silin.

RUSSIAN, bk, Vibratsionnyye Ustroystva V Mashinostroyenii,
Moscow, 1962, pp 89-94.

*FTD-TT-63-46

The Effect of the Heating Rate on the Temperature
Intervals of Conversion During the Electro-Tempering of
Steels, by B. N. Rudnev, Yu. Ya. Meshkov,

RUSSIAN, bk, Voprosy Fiziki Metallov i Metallovedeniya
Ak Nauk UkrSSR, Sbornik Nauchnykh Trudov Instituta
Metallofiziki, Kiev, No 14, 1962, pp 116-120.

*FTD-TT-63-48

On the Existence of Centers of Formation of Martensite
Crystals Above the Points of Metastable Equilibrium,
by I. A. Arbusova, L. G. Khandros.

RUSSIAN, bk, Voprosy Fiziki Metallov i Metallovedeniya
Ak Nauk UkrSSR, Sbornik Nauchnykh Trudov Instituta
Metallofiziki, Kiev, No 14, 1962, pp 147-151.

*FTD-TT-63-48

Conditions of Similarity of Heat Transfer Processes
for Fluids With Variable Properties, by I. I.
Novikov.

RUSSIAN, bk, Voprosy Teplootdachi i Gidravliki
Dvukhfaznykh Sred; Sbornik Stateli, Moscow, 1961,
392 pp.

FTD-TT-63-82

Scientific
Engineering (Contd)

A Survey of the Results of Scientific Research on
Pre-Stressed Reinforced Concrete, by A. A. Gvozdev,
8 pp.
RUSSIAN, np, May/Jun 1962.

AF 1516216

On the Actuality of the Anodic Flow Method of Machining
Metallic Surface, by S. A. Dobnar.
RUSSIAN, per, Dok Ak Nauk Belorussian SSR, Vol VI, No 8,
1962, pp 494-496.

*FTD-TT-63-49

Green Light to Sitalts Made From Slags, by V. Vavilov.
RUSSIAN, np, Ekos Gazeta, 11 Dec 1961, p 19.

*FTD-TT-63-60

Problem of the Reliability of Electric Motors (Part II),
by N. A. Tishchenko.
RUSSIAN, per, Elektrichestvo, No 12, 1961, pp 16-19.

*FTD-TT-63-36

PK-39 Boiler Unit With A 950 - Ton Steam Generating
Capacity, by Yu. I. Okerblom, 9 pp.
RUSSIAN, per, Energomashinostroyeniye, No 8, 1962,
pp 1-5.

JPRS 16826

Regional Boiler Installations Operating on Gas Fuel,
by M. I. Sazonov, 10 pp.
RUSSIAN, per, Gordoskoye Khozyaystvo, No 9, 1962,
pp 27-30.

JPRS 16826

On the Strength of Thick-Walled Cylindrical and
Hollow Spherical Shells Exposed to Irradiation, by
A. A. Il'yushin, P. M. Ogibalov, 15 pp.
RUSSIAN, per, Inzhenerniy Sbornik, Vol XXVIII, 1960,
pp 134-144. 9667388

FTD-TT-62-719

Selected Articles From the Russian Periodical
Inzhenerno-Zhur.

Vol II, No 3, 1962.

*FTD-TT-63-79

Laminar Boundary Layer With a Reaction Front on
a Porous Plate, by V. M. Yemel'yanov, (pp 21-26).

Boundary Layer in the Vicinity of the Critical
Point of a Blunt Body, by Ye. M. Shakov, (pp 27-35).

Character of Flow in the Separation Zone, by
V. Ya. Neyland, G. I. Taganov, (pp 36-42).

Plasma Acceleration by a Magnetic Field, by
S. I. Fadeyev, (pp 68-73).

Gas Velocities in Shock Tubes, by A. I. Lashkov,
(pp 161-162).

Selected Articles From the Russian Periodical Inzhenerno-Fiz Zhur.

- Vol V, No 3, 1962, pp 103-106. *RAND
Analysis of the Transition From Laminar to
Turbulent Boundary Layer Under the Influence
of Free Stream Turbulence, by L. F. Kozlov.
- Vol V, No 4, 1962, pp 10-14. 9667371 FTD-TT-62-1328
An Experimental Study of Heat Transfer With
Melting of a Metal and With Molten Metal Fed
Through a Porous Wall in a Supersonic Stream,
by I. A. Zotikov, L. N. Bronskiy, 7 pp.
- No 6, 1962, pp 21-26. *FTD-TT-63-84
Calculation of Thermal Boundary Layer in the Flow
of Compressible Gas, by L. M. Zysina-Molozhen,
- Calculation of Factors, Affecting the Accuracy in
Determining the Drift of Floating Integrating
Gyroscopes, by G. A. Slomyanskiy, 13 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 2, 1961, pp 61-69. 9667356 FTD-TT-62-1231
- The Flow of Gas Near the Stagnation Point of a
Blunt Body With a Finite Rate of Excitation of
Vibrational Degrees of Freedom, by I. N. Murzinov,
8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk Mekh
i Mash, No 6, 1961, pp 33-36. 9667347 FTD-TT-62-1313
- Definition of Characteristics of Friction in a Two-
dimensional Laminary Compressed Boundary Layer at
High Temperatures and at a Zero Gradient of Pressure,
by I. I. Suksov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Aviat Tekh,
No 1, 1962, pp 19-31. *FTD-TT-63-90
- Examination of Pulse Discharge at Low Pressure
by Probing Method, by B. N. Gulko, 10 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 1,
1960, pp 197-202. 9667375 FTD-TT-62-1282
- Ways to Increase the Effectiveness of the Principle
of Least Squares in Overcoming Systematic Errors, by
A. L. Bolotin.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Geodez i
Aerofotos, No 4, 1961, pp 39-42. ERDL, Ft Belvoir
T-1623
- Cooling Turbines in High Temperature Gas Turbine
Engines, by K. M. Popov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Mash, No 2,
1960, pp 19-30. *FTD-TT-63-33

Scientific
Engineering (Contd)

Investigating Transient Aerodynamic Phenomena in Axial Compressors, by G. S. Samoylovich.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Mash, No 3, 1960, pp 66-77.

*FTD-TT-63-33

On the Movements of a Statically Balanced Gyroscope in a Cardan Joint, Mounted on a Vibrating Base, by A. M. Lestev, 9 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Priborostroyeniye, Vol V, No 1, 1962, pp 82-88. 9667394

FTD-TT-62-1280

Operation of a Centrifugal Froth Separator, by V. T. Barishpolets, 5 pp.
RUSSIAN, per, Khim Prom, No 2, 1962, pp 45, 46. 9200975

AEC-Tr-5379

Heat Barrier, by V. L'vov.
RUSSIAN, np, Komsomol' Pravda, 21 Feb 1959, p 3.

*FTD-TT-63-56

Critical Heat Fluxes in the Flow of a Wetting Liquid With the Core (of the Stream) Below the Saturation Temperature, by S. S. Kutateladze, 10 pp.
RUSSIAN, per, Nauchn. Dok Vysshey Shkoly, Energ, No 2, 1959, pp 229-239. 9201260

AEC-Tr-5518

Solar Electric Power Stations, by M. S. Sominskiy, 18 pp.
RUSSIAN, per, Priroda, No 9, 1962, pp 77-86.

JPRS 16683

Electrohydraulic Effect and Its Application in Mining, by L. Yutkin, 8 pp.
RUSSIAN, per, Stroitel'nyye Materialy, Izdaliya i Konstruktsii, No 9, 1955, pp 13-15. 9667323

FTD-TT-62-1347

Norms for Artificial Lighting, by Firsanov.
RUSSIAN, per, Svetotekhnika, No 11, 1961, pp 20-21.

ERDL, Ft Belvoir
T-1660

Selected Articles From the Russian Periodical Teploenergetika.

Vol VIII, No 2, 1961, pp 67-71.
Light Modelling of Radiant Heat Exchange in Furnaces, by L. A. Voulis.

Dept of Interior
TN7 E57 No 568

No 8, 1962,
Radial Leaks in Turbine Stages (USSR), by G. V. Zhukovskiy, (pp 47-51).

*FTD-TT-63-81

Scientific
Engineering (Contd)

Selected Articles From the Russian Periodical
Teploenergetika. (Contd)

- No 8, 1962. *FTD-TT-63-81
Pressure Pulsation and Dynamic Stresses on Rotor
Blades of an Axial Compressor (USSR), by G. S.
Samoylovich, I. N. Pis'min, (pp 51-55).
- No 10, 1962, pp 47-52. *FTD-TT-63-99
Guide Vanes for Supersonic Velocities, by
M. Ye. Deych, A. V. Gubarev, et al.
- Use of Powdered Metal Products in Tractor Manufacture,
by Ye. E. Verner, A. M. Umanskiy, 7 pp.
RUSSIAN, per, Traktory i Sel'khoz mashiny, No 10,
1962, pp 42-44. JPRS 17041
- Construction of Reinforced Concrete Stressed Con-
tainers for Petroleum Products, by M. A. Sitnikov,
6 pp.
RUSSIAN, per, Transportnoye Stroitel'stvo, No 2,
1962, pp 31-33. JPRS 17062
- Certain Problems Concerning the Effect of Thermal
Deformations of Machine Units of Precision Grind-
ing on the Machining Accuracy, by F. P. Duzhenkov,
14 pp.
RUSSIAN, per, Trudy Aviatsionnyy Tekh Inst.
Nekotoryye Voprosy Sovremennoy Tekhnologii
Priborstroyeniya, No 52, 1961, pp 61-72. 9667390 FTD-TT-62-1285
- Plotting of Gas Flow Behind a Turbine, by V. V.
Bleskina.
RUSSIAN, per, Trudy Murmanskogo Vysshego Morekhodnogo
Uchilishcha, No 3, Part I, 1960, pp 65-70. *FTD-TT-63-32
- A Method for Obtaining Impact Deformational Forces
by Means of Hydroelectrical Forces, by L. A. Yutkin,
L. I. Gol'tsova.
RUSSIAN, Patent No 142,502, Class 49g, 1002, 58a,
1, Application No 419284/25 of 5 Jun 1950, pp 1-3. *FTD-TT-63-25
- A Turbine-Clutch Fitted With a Free-Wheeling
Mechanism, by B. A. Gavrilenko, V. A. Minin,
RUSSIAN, Patent No 142847, Application No 678567/25
of 12 Sep 1960, Class 47c. *FTD-TT-63-15
- A Source of Ions for the Injectors of Proton
Accelerators, by Heinz Werner (Verner).
RUSSIAN, Patent No 146,891, Appl No 668451/26,
28 May 1960, Class 21g, 31. *FTD-TT-63-68

Scientific
Engineering (Contd)

- Starting Vehicle Engines at Low Ambient Temperatures,
by J. Zelenka, V. Dvorak, 12 pp.
CZECH, per, Automobil, No 2, 1962, pp 34-39. ACSI I-3060
ID 2211693
- Pre-Heating the Charge of Electric Arc-Furnaces, by
Z. Busek.
CZECH, per, Sbornik Vedeckych Praci Vysoke Skoly
Banske v Ostrave, Vol VII, No 7, 1961, pp 731-733. BISI 2955
- A Comparison of Acid and Basic Arc-Furnaces, by
Z. Kubista, Z. Buzek.
CZECH, per, Sbornik Vedeckych Praci Vysoke Skoly
Banske v Ostrave, Vol VII, No 7, 1961, pp 799-803. BISI 2959
- Pump for Transporting Fluid Metals, by Karel Vengr.
CZECH, per, Technicke Zpravy "CKD", Vol VI, No 12,
1960, pp 392-393. *FTD-TT-63-8
- Transducer Based on the Measurement of the Hall
Constant, by Josef Hisek, Frantisek Mokovec, et al.
CZECH, Patent Class 42 E, 31/03, 95034, Apr 15, 1960. *FTD-TT-63-75
- Automation in Blast Furnaces, by H. Sulzer.
FRENCH, per, Centre D'Etudes Superieures de la
Siderurgie, 1962. *BISI 3080
- Study of Splashes Produced by Vertical Top-Blowing
in a Bath of Water, by J. Chedaille, M. Horrais.
FRENCH, per, Centre de Documentation Siderurgique
Circulaires, No 2, 1962, pp 361-366. *BISI 3057
- Recovery of Unburnt Gases From a Pure Oxygen
Converter, by J. Dumont-Fillon.
FRENCH, per, Centre de Documentation Siderurgique
Circulaires d'Informations Techniques, Vol XIX,
No 2, 1962, pp 441-446. BISI 3058
- A Study of Bench Equilibrium Profiles, by
J. Sitarz, 33 pp.
FRENCH, per, Electricite de France, 1960,
pp 43-62. Army Map Service
- Study of Some Flow Characteristics in the Down-
stream Part of Spillways, by R. Maitre.
FRENCH, per, La Houille Blanche, No 4, 1954,
pp 481-511. Dept of Interior
TC7 E57 No 36
- The Hydraulic Jump, by J. Flores.
FRENCH, per, La Houille Blanche, Vol IX, No 6,
1954, pp 811-822. Dept of Interior
TC7 E57 No 34

Scientific
Engineering (Contd)

The Stability of the Homogeneous Structure of Fluidised Beds, by E. Ruckenstein.

FRENCH, per, Revue de Physique, Vol VII, No 1, 1962, pp 137-143.

*AEC

Preparation of Blast Furnace Charge at Usiness De Forges De La Providence Marchienne-Au-Pont, by P. Charon, H. Landgraf.

FRENCH, per, Revue Universelle Des Mines, 1961, pp 99-110.

*BISI 3088

Vacuum and Ultra-High Vacuum in an Ion Injection and Magnetic Mirror Experiment, by E. Fischhoff, F. Prevot, et al.

FRENCH, per, Le Vide, Vol XVII, No 99, 1962, pp 195-200.

*AEC

Design and Manufacture of a Titanium Pump, by J. Sarrau.

FRENCH, per, Le Vide, Vol XVII, No 99, 1962, pp 267-272.

*AEC

Equations for the Fuel Charge of Reactors, by E. Kern, 44 pp.

GERMAN, per, Atomkernenergie, Vol VII, No 1, 1962, pp 1-14. 9200971

AEC-Tr-5485

Electronic Counters Assure Constant Accuracy in Roll Adjustment, by J. Ullmann.

GERMAN, per, Bander, Bleche, Rohre, Jan 1962, pp 17-20.

BISI 2978

Hot Dip Galvanising and Preliminary Treatment of Mass Produced Articles of Plain Carbon Steel Sheets up to 1.2mm Thickness, by O. Weihrich.

GERMAN, per, Blech, Vol IX, 1962, pp 241-248.

*BISI 3082

Automatic Two-Stage Galvanising Plant, by P. W. Neuldijk.

GERMAN, per, Blech, Vol IX, 1962, pp 258-260.

*BISI 3083

Heat Transfer and Resistance to Flow in Aligned and Staggered Arrangements to Finned Tubes in Heat Exchangers, by H. Brauer.

GERMAN, per, DEW-Technische Berichte, Vol II, No 1, 1962.

*BISI 3085

Bands of Varying Temperature in Induction Heating, by J. Georges.

GERMAN, per, Harterei-Technische Mitteilungen, Vol XVI, No 1, 1961, pp 1-6.

*BISI 3055

Scientific
Engineering (Contd)

Endurance Limit (Fatigue Strength) of Screws or Bolts.
The Influence They Undergo by the Shape, Manufacture
and Type of Material, by W. Staedel, 56 pp.

GERMAN, per, Mitteilungen der Materialprüfungsanstalt
an der Technischen Hochschule Darmstadt, No 4, 1933,
pp III-IV, 1-19, 23-41, 76, 84-91, 93-100. 9200974

AEC SCL-T-439

Status and Development Trends of Maser Technique, by
L. Mollowo, 26 pp.

GERMAN, per, Nachrichtentechnik, Vol XI, No 8, 1961,
pp 343-351.

ACSI I-1252.
ID 2196110

Construction, Capacity and Method of Working of
Recent De-Scaling Machines, by K. Fellcht,
E. Dietmar.

GERMAN, per, Neue Hütte, Vol VII, 1962, pp 395-402.

*BIS 3093

Steel Wire Patenting Structure in the Electron Micro-
scope, by E. Neumann, H. Kofler.

GERMAN, per, Radex Rundschau, No 6, 1961, pp 747-773.

BISI 2887

The Use of Oxygen for Increasing Production in the
Open Hearth Furnace, by G. Mecacci, G. Violi.

GERMAN, per, Radex Rundschau, No 5, 1962, pp 250-270.

*BISI 3069

The Determination of the Displacement of Dry Cargo
Freighters in the Early Design State, by Erich C. M.
Danckwarat.

GERMAN, per, Schiffbautechnik, No 11, 1961, pp 548-555.

RAND RM-
3400-PR

Research on Soft-Soldered Joints: A Contribution to
the Development of Suitable Testing Methods for Static
and Dynamic Strength, by H. Koch, W. Wasserbach, 21 pp.
GERMAN, per, Schweissen und Schneiden, Vol XII, 1960,
pp 2-10. 9201276

AEC-Tr-5469

High Frequency Tube Welding With Energy Transmission
Through Contacts, by H. Gorissen.

GERMAN, per, Schweissen und Schneiden, Vol II, Feb 1962,
pp 69-71.

BISI 2946

Effect of Sampling, Type of Electrode and Welding
Conditions on Hydrogen Content in a Weld, by
H. Zitter.

GERMAN, per, Schweisstechnik, Vol XVI, 1962, pp 15-21.

*BISI 3068

Scientific
Engineering (Contd)

Selected Articles From the German Periodical
Stahl und Eisen

- Vol XXII, 1960, pp 1458-1468. *BISI 3092
Further Development in the Reduction of Salzgitter
Ore, by H. Schumacher.
- Vol LXXXI, 7 Dec 1961, pp 1729-1739. BISI 2894
Experiments and Calculations on Drawing and
Pushing-in of Rounds, by O. Pawelski, W. Lueg.
- Vol LXXXII, 26 Apr 1962, pp 513-517. BISI 2991
475 Tonne Ladle Handling Crane of New Design and
Low Weight, by H. Ernst.
- Vol LXXXII, 2 Aug 1962, pp 1105-1113. BISI 2982
Combined Gas Turbine - Steam Power Plant for
Producing Electric Power and Blast in an
Integrated Iron and Steel Works, by H. Zahlaus.
- Construction of a Model Controlled System, by V. Ferner, 525th MI Gp
Kleinmachnow, 20 pp. I-1495
GERMAN, per, Die Technik, No 2, 1954, pp 85-95. ID 2198559
- Fatigue Life of High-Strength Bolted Joints, by
H. Wiegand, K. H. Illgner.
GERMAN, per, VDI-Z, Vol CIV, 1962, pp 1275-1281. *BISI 3084
- The Improvement and Present Capability of the Double
Focusing Mass-Spectrograph, by R. Bieri, F. Everling,
17 pp.
GERMAN, per, Z fuer Naturforschung, Vol Xa, 1955,
pp 659-667. AEC-Tr-5314
- Sand Blasting and Shot Peening, by J. R. Rouff.
GERMAN, per, Zinc, Cadmium & Alloys, No 28,
Oct/Dec, 1961, pp 34-45. *BISI E 3061
- Devoted and Purposeful Work is Required, by
Jeno Gulyas, 6 pp.
HUNGARIAN, per, Partelet, Vol VII, No 11-12, 1962,
pp 128-132. JPRS 17168
- Internal Shielding of High Energy Accelerators, by
M. Ladu, M. Petilli.
ITALIAN, rpt, Comitato Nazionale Energia Nucleare,
Rome, 1962. *AEC
- Contribution to the Knowledge of the Behavior of
Pipelines Drilled in Rock, by Gigli, Ermanno.
ITALIAN, per, L'Elettrotecnica, Vol XXXVI, No 11,
1949, pp 546-550. *RAND

Scientific
Engineering (Contd)

Advantages of Installing Twin Collecting Mains in
Coke-Oven Batteries, by J. Nadziakiewicz, J. Warmuzinski,
35 pp.

POLISH, per, Prace Glownego Instytutu Gornictwa,
No 123, 1952, pp 1-19. 9068476

OTS 60-21303
PL-480

Investigation of Axial Fans, by Jerzy Konrad
Nowakowski.

POLISH, per, Prace Instytutu Techniki Cieplanej,
Vol IX, No 16, 1961, pp 33-56.

*FTD-TT-63-71

The Consolidation of Soil by the Walking Vibrator,
by Wladyslaw Wedzinski, Wladyslaw Knabe, 18 pp.

POLISH, per, Rozprawy Hydrotechniczne, No 4, 1958,
pp 97-120. 9068473

OTS 60-21582
PL-480

Inlet Diffusers Operation in Variable Conditions,
Part II, by Andrzej Kowalewicz.

POLISH, per, Technika Lotnicza, No 6, 1960, pp 165-169.

*FTD-TT-63-28

Measuring Methods for the Evaluation of Combustion
Chamber Efficiency, by J. Jarosinski.

POLISH, per, Technika Lotnicza, No 7, 1962, pp 195-201.

*FTD-TT-63-23

Changes in Fiber Length and Thickness as a Criterion
for the Estimation of the Technological Process, by
Witold Zurek, 9 pp.

POLISH, per, Zeszyty Naukowe Politechniki Lodzkiej,
No 27, 1959, pp 37-47. 9068471

OTS 60-21548
PL-480

Some Results Concerning the Distribution of Fuel Jets
Atomized by Means of Low-Pressure Injectors, by
Cornel Ungureanu.

RUMANIAN, per, Energetica, Vol IX, No 3, 1961,
pp 94-100.

*FTD-TT-63-29

On Inventions, Innovations, and Rationalizations
in the Rumanian People's Republic, by M. Mihaila,
P. Stanciulescu, 30 pp.

RUMANIAN, per, Revista de Geodezie si Organizarea
Teritoriului, Vol VI, No 3, 1962, pp 3-17.

(Call No QB275 .R45)

Army Map Service

Memorandum Concerning the Spanish Telecommunication
Services, 27 pp.

SPANISH, rpt, Memoria de los Servicios de Tele-
comunicacion de Espana, 1961, pp 1-34. Encl
No 1 to R-157-62, OAREIA, Spain.

ACSI 1-6005
ID 2196716

Scientific
Engineering (Contd)

Review of Theoretical and Constructional Work on
Pendulum Dampers, by G. K. Ostapov.
UKRAINIAN, per, Naukovi Zapysky Vinnits'kogo
Derzhannogo Pedagogichnogo Instytutu, No 17, 1960,
pp 132-145.

*FTD-TT-62-1933

Expansion of a Circular Cylindrical Tube Subjected
to Dynamic Loads, by I. Z. Stepanenko, 5 pp.
UKRAINIAN, per, Prykladna Mekhanika, Vol III, 1957,
pp 225-228. 9201386

AEC UCRL-
Tr-876 (L)

Fuels

Liquid Rocket Fuel, by A. V. Seregin.
RUSSIAN, bk, Zhidkiye Raketnyye Topliva, Moscow,
1962, pp 1-92.

*FTD-TT-63-98

Geophysics

Geographic Symposium XV: Astrogeology. The
Geographic Society of the USSR, 9 pp.
RUSSIAN, rpt, Moscow, Leningrad, 1962, pp 207.

MEB

A Classification of Pyroclastic Rocks, 19 pp.
RUSSIAN, rpt, 1962.

MEB

A Study of the Western Coastal Antarctic Current,
by I. V. Maksimov, 5 pp.
RUSSIAN, Information Bulletin of the Soviet
Antarctic Expedition, No 2, 1958, pp 31-35.

Navy Tr 3293/
H.O. 168

Depth Control of Metamorphism in Extrusive Rocks,
by D. S. Korzhinskiy, 12 pp.
RUSSIAN, rpt, Papers Presented at the A. N.
Zavaiatskiy Memorial Symposium, 23-26 March, 1960.

MEB

Atlas of the Diurnal Amplitudes of Air Temperature
in the USSR, by D. A. Pod, Z. L. Turketti, 17 pp.
RUSSIAN, Monogram, Atlas Sutochnykh Amplitud
Temperatury Vozdukh v SSSR, Leningrad, 1962,
pp 2-11.

JPRS 16667

The Thermal State of Upper Atmospheric Layers, by
K. Ya. Kondrat'yev, O. P. Filipovich.
RUSSIAN, bk, Gidrometeorologicheskoye Izdatel'stvo,
Leningrad, 1960.

NASA TT F-103

Scientific
Geophysics (Contd)

Selected Articles From the Russian book, Issledovaniya Serebristyykh Oblakov, Leningrad, No 1, 1960.
9667387

FTD-1T-62-1341

The Apparent Frequency of the Appearance of Noctilucent Clouds According to Observations by the Stations of the Hydrometeorological Service Network in 1957 and 1958, by T. D. Pavlova, 41 pp, (pp 3-58).

Certain Cases of the Appearance of Bright Noctilucent Clouds During the Summer of 1959, by I. I. Lebedeva, 8 pp, (pp 59-65).

Photometric and Colorimetric Observations of Noctilucent Clouds During the Summer of 1959, by V. V. Sharonov, 15 pp, (pp 66-76):

The Absolute Photometry of the Twilight Sky and Noctilucent Clouds, by I. A. Parshin, 10 pp, (pp 77-84).

Ice Cover of the Sea of Azov, by B. S. Shustov. RUSSIAN, bk, Izvestiya Assotsiatsii Nauchno-Issled. Institutov Pri Fiz.-Mat. Fakul'tete MGU, Vol III, No 1-A, 1930, pp 103-128.

*Navy/HO
Tr 186

A Course in Higher Geodesy, by P. S. Zakatov, 390 pp. RUSSIAN, bk, Kurs Vysshei Geodezii, Moscow, 1953.

OTS 61-31212
PL-480

The Main Hydrological Characteristics of the Indian Ocean, by A. M. Muromtsev, 106 pp. RUSSIAN, bk, Osnovnyye Cherty Gidrologii Indiyanskogo Okeana, 1959, pp 3-435.

ACSI 1-1717
ID 2203225

Currents of the Bering Sea, by A. K. Leonov. RUSSIAN, bk, Regional'naya Okeanografiya, Part I, 1960, pp 103-124.

*Navy/HO
Tr 187

Spectral, Electrophotometric and Radar Research of Aurorae and Airglow, by V. I. Krasovskiy, 75 pp. RUSSIAN, rpt, Spektral'nyye Elektrofotometricheskiye i Radiolokatsionnyye Issledovaniya Polyarnykh Siyanii i Svecheniya Nochnogo Neba, IGY Program, Part IV, No 5, 1961.

NASA TT F-106

Proceedings of the Main Geophysical Observatory imeni A. I. Voeikova, by D. L. Laykhtman, 180 pp. RUSSIAN, bk, Trudy Glav Geofiz. Observatorii, No 107, 1961, pp 1-201.

ACSI 1-1719
ID 2203226

Scientific
Geophysics (Contd)

The Deep Drainage of Lowland Swamps, by S. F. Aver'yanov, D. P. Yunevich, 17 pp.
RUSSIAN, per, Gidrotekh i Meliorat, Vol X, 1960, pp 24-36. 9201016

OTS 61-31071
PL-480

Determination of the Density of the Atmosphere of the Moon According to Information of the Radio-Emission of the Sun, by G. A. Gurzadyan.
RUSSIAN, per, Iz Ak Nauk Arnyanskay SSR, Ser Fiz - Matemat, Vol X, 1957, pp 55-74.

RAND RM-
3456-PR

Radiation Balance of the Northern Hemisphere, by M. I. Budyko, N. A. Yefimova, 17 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 1, 1961, pp 3-12. 9667354

FTD-TT-62-1340

Selected Articles From the Russian Periodical
Iz Ak Nauk SSSR, Ser Geol.

No 5, 1962.

JPRS 16699

Artificial Intensification of the Melting of Mountain Glaciers for Increasing the Runoff of Rivers in Central Asia, by G. A. Avsyuk, 8 pp, (pp 83-89).

Earth Sciences and the Problems of Transforming Nature, by A. G. Doskach, 15 pp, (pp 127-137).

Second Conference on the Problem of Climatic Transformation, by A. P. Gal'tsov, 6 pp, (pp 184-187).

No 10, 1962.

JPRS 16711

Frequency Spectra of Pulstation of the Horizontal Component of Wind Velocity in the Ground Layer of Air, by S. L. Zubkovskiy, 12 pp, (pp 1425-1453).

The Transfer Coefficient Determined by Comparing the Size of Impressions on Tapes Covered With a Layer of Magnesium Oxide or Without Special Covering to the Diameter of Drops, by Huang Mei-yuen, 10 pp, (pp 1434-1440).

Formation of Rime on Frozen Drops of Water in an Electrical Field, by V. M. Muchnik, Yu. S. Rud'ko, 5 pp, (pp 1450-1452).

Crystallization of Supercooled Water by Silver Iodide, by V. N. Balavanova, T. N. Zhigalovskiya, 5 pp, (pp 1453-1455).

Scientific
Geophysics (Contd)

The Exciting Forces and Wetting of Ships in Waves,
by M. D. Haskind.

RUSSIAN, per, Iz Ak Nauk SSSR. Otdel Tekh Nauk, No 7,
1957, pp 65-79.

Navy Tr 3294/
DTMB T-307

An Investigation of Magnetic Fields Associated With
Solar Flares, by A. B. Severnyy, 45 pp.

RUSSIAN, per, Iz Krynskoy Astrofiz Observatorii,
Vol XXII, 1960, pp 12-41. 9679272

FTD-TT-62-99

On the Motion of the Sikhote-Alinsk Meteorite in
the Atmosphere, by V. G. Fesenkoy.

RUSSIAN, per, Meteoritika, Vol IX, 1951.

*RAND

Statistical Study of Bolides, by K. A. Lyubarskiy.

RUSSIAN, per, Meteoritika, Vol XI, 1954, pp 152-164.

*RAND

Atmospheric Currents at Altitudes of 80-100 KM
From Observations of the Drift of Meteor Trains, by
A. P. Savrukhn, 6 pp.

RUSSIAN, per, Met i Gid, No 10, 1962, pp 34-36.

JPRS 16905

Physics of the Atmospheric Boundary Layer, by
D. L. Laykhtman, 6 pp.

RUSSIAN, per, Met i Gid, No 10, 1962, pp 50-52.

JPRS 16905

Literature on Meteorology, Hydrology and
Oceanography Published in 1961, 11 pp.

RUSSIAN, per, Met i Gid, No 10, 1962, pp 57-60.

JPRS 16905

Flight - Explosion, by L. Yur'yev, 16 pp.

RUSSIAN, per, Nauka i Zhizn, No 5, 1961, pp 17-22.
9667330

FTD-TT-62-98

A Device for Determining the Permeability of Soils
To Water Under Field Conditions, by V. M. Klychnikov,
13 pp.

RUSSIAN, per, Pochvovedenie, No 9, 1952, pp 851-859.
9201009

OTS 61-31161
PL-480

Transforming the Northern Dvina Delta, by
A. Popov-Vvedenskiy.

RUSSIAN, per, Rechnoy Transport, Vol V, 1962,
pp 50, 51.

ACSI I-3069-C
ID 2211702

The Eroding Capacity of Flow With the Bed Load
Transportation in the Form of Ridges, by A. N.
Lyapin.

RUSSIAN, per, Trudy Gosudarstvennogo Gidrogeolog-
icheskogo Instituta, No 69, 1959, pp 43-69.

Dept of Interior
QE3 E57 No 101

Scientific
Geophysics (Contd)

An Attempt of a Specialized Characterization of Hydrological Regime Using Zhdanov Port as an Example, by E. S. Karakash.
RUSSIAN, per, Trudy Gosudarstvennogo Okeanograficheskogo Instituta, Vol XLIV, 1957, pp 5-72.

*Navy/HO Tr 185

The Significance of Dynamics in the Formation of Subsurface Waters on the Russian Platform, by M. A. Gatal'skiy, 33 pp.
RUSSIAN, per, Trudy Vses Neft Nauch-Issled Inst i Geologo-Razvedochnogo Instituta Novaya Seriya, Leningrad, No 95, 1956, pp 232-265. 9201014

OTS 61-31046
PL-480

Ice Cover of the Black Sea, by B. S. Shustov.
RUSSIAN, per, Zemlevedeniye, Vol XXXVI, No 4, 1934, pp 376-395.

*Navy/HO Tr 184

Research on the Distribution of China's Violent Rainstorms, 55 pp.
CHINESE, monograph, Chung-kuo Pao-yu Fen-chu T'u Ti Yen-chiu, Peking, 1959, pp 1-19.

JPRS 17003

On Geometric and Physical Methods for Determining Solar Paralla, by Karel Vodicka.
CZECH, per, Casopis pro Pestovani Matemat a Fiz, Vol XL, 1911, pp 195-212, 305-318, 473-484, 585-559, 1912, pp 69-73, 192-203, 583-596; 1913, pp 43-58, 183-201.

*RAND

A Look at the Geodetic Institute's Activities, by V. Niskanen, 9 pp.
FINNISH, per, Maanmittausinsinööri, Vol LXXI, No 5/6, 1962, pp 98-104. (Call No TA501 .M11)

Army Map Service

An Attempt to Analyze the Phenomena Involved in Estuary Formation, by M. Baval, 16 pp.
FRENCH, rpt, Essai d'Analyse des Phenomenes Intervenant dans la Formation d'un Estuaire, Aug 1960, pp 294-306.

Army Map Service

On Historical Changes Following Freezing, by A. Rischpler.
GERMAN, per, Beitrage Zur Pathologischen Anatomie u Zur. Allgemeinen Pathologie, Vol XXVIII, No 3, 1900, pp 541-592.

*Navy/NMS

Experimental Tests in Roughness and Stabilization Problems in the Ground Level Atmosphere, by W. Paeschke.
GERMAN, per, Beitrage zur Physik der Freien Atmosphere, Vol XXIV, No 1-4, 1938, pp 162-189.

*ACSI I-7002
ID 2216527

Scientific
Geophysics (Contd)

On the Surf Along the Coasts of the Atlantic Island of Ascension and St. Helena, by F. Rossman, 23 pp.
GERMAN, per, Deutsche Hydrographische Zeitschrift, Vol XIV, No 2, Hamburg, 1961, pp 41-54.

Navy Tr 3292/
H.O. 162

Studies of the Phenomena of Waving Plants ("HONAMI") Caused by Wind Part VI: Methods of Artificially Controlling the Waving Plants Phenomena, by E. Inoue, 6 pp.
JAPANESE, bk, Honami No Kenkyu, 1960, pp 39, 40.

319th MI Bn
I-7046
ID 2216535

Pollution of the Atmosphere, by J. Juda, K. Budzinski.
POLISH, bk, Zanieczyszczenia Atmosfery, Warsaw, Nov 1961, pp 1-256.

*JPRS

The Fluctuation of Temperature in the Open Waters of the Adriatic, by M. Buljan, 17 pp.
SERBO-CROATIAN, per, Acta Adriatica, Vol VIII, No 7, 1957, pp 1-26. 9201013

OTS 60-21713
PL-480

A Contribution to the Knowledge of the Soils of Metohija, by V. Neugebauer, D. Vig, 46 pp.
SERBO-CROATIAN, per, Zemljiste i Biljka, Vol I, No 2, 1951, pp 187-232. 9201018

OTS 60-21620
PL-480

Mathematics

Digital Analogs for Automatic Control Systems, by A. Avenir, Voronov.
RUSSIAN, bk, Tsifrovye Analogi dlia Sistem Avtomaticheskogo Upravleniia, Moscow, 1960, 195 pp.

*RAND

Certain Problems in the Theory of Multivariable Linear Automatic Control Systems, by S. I. Rybnikov, 12 pp.
RUSSIAN, bk, Voprosy Avtomaticheskovo Regulirovaniya Dvizhushchikhsya Ob'yektov, 1961, No 139, pp 119-128. 9667335

FTD-TT-62-1384

The Study of Correlated Random Values, by G. A. Stepan'yants, 6 pp.
RUSSIAN, bk, Voprosy Avtomaticheskogo Regulirovaniya Dvizhushchikhsya Obyektov, Moscow, No 139, 1961, pp 129-133. 9667426

FTD-TT-62-1191

Universal Automatic Digital Computer, "Ural-2," 10 pp.
RUSSIAN, brochure, Vychislitel'nyy Tsentr, Ak Nauk SSSR, 1960, pp 290-297. 9667424

FTD-TT-62-1237

**Scientific
Mathematics (Contd)**

An Algorithm for the Organization of Information,
by G. M. Adel'son-Vel'skiy, Ye. M. Landis,
7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XVI, No 2,
1962, pp 263-266.

JPRS 17137

A Lemma on the Limit of a Complex Random Function,
by R. L. Dobrushin.

RUSSIAN, per, Uspekhi Matemat Nauk, Vol X, No 2(64),
1955, pp 157-159.

*RAND

Zero-One Diagrams, by Leon Lukaszewicz, 8 pp.

POLISH, per, Prace Zakladu Aparatow Matematycznych
Pan, Ser A, No 1, 1959, pp 1-11. 9201021

OTS 61-11303
PL-480

A Theory of Flow-Diagrams, by Leon Lukaszewicz,
7 pp.

POLISH, per, Prace Zakladu Aparatow Matematycznych
Pan, Ser A, No 2, 1959, pp 1-11.

OTS 61-11303
PL-480

Relay System for Digital Computer Control, by Leon
Lukaszewicz, 5 pp.

POLISH, per, Prace Zakladu Aparatow Matematycznych Pan,
Ser A, No 3, 1959, pp 1-11.

OTS 61-11303
PL-480

**Scientific
Medicine**

Optical Transition Probabilities, 470 pp.
RUSSIAN, Collection of Russian Articles, 1924-1960.

OTS 61-11437
PL-480

Active Specific Prophylaxis of Infectious Diseases
and Its Improvement, by N. I. Aleksandrov, N. Ye.
Gefen, 385 pp.
RUSSIAN, bk, Aktivnaya Spetsificheskaya Profilaktika
Infektsionnykh Zabolevaniy i Puti Yeye Usovershen-
stvovaniya, Moscow, 1962,

JPRS 16793

Dibazol in the Prevention and Therapy of Toxemia
of Late Pregnancy, Chap III & IV, by Elizabeta
Borisovna Derankova, 63 pp.
RUSSIAN, bk, Dibazol v Profilaktike i Lechenii
Pozdinkh, Leningrad, 1961, pp 34-100. 9667373

FTD-TT-62-1302

Lung Nematodes of Hoofed Animals in Kazakhstan,
by S. N. Boyev, 178 pp.
RUSSIAN, bk, Legochnye Nematody Kopytnykh
Zhivotnykh Kazakhstana, 1957.

OTS 61-31217
PL-480

Conclusions From the Mediatory Function of
Acetylcholine and the Nature of Cholinoreceptors,
by T. M. Turpayev, 7 pp.
RUSSIAN, bk, Mediatornaya Funktsiya Atsetilkholina
i Priroda Kholinoretseptora, Moscow, 1962, pp 124-129.

JPRS 17172

Comparative Evaluation of Various Beverages During
Prolonged Observation Under Nonworking Conditions,
by K. Yu. Yusupov, 19 pp.
RUSSIAN, bk, Novoye Pit'ye-voye Sredstvo Dlya
Rabochikh v Usloviyakh Vysokikh Temperatur,
Tashkent, 1961, pp 160-175.

JPRS 17186

Problems of Radiation Genetics, by N. P. Dubinin,
511 pp.
RUSSIAN, bk, Problemy Radiatsionnoi Genetiki,
1961.

AEC-Tr-5376

Organization and Method of Fighting Anthrax, by
B. M. Pastukhov, E. N. Shlyakhov, et al., 53 pp.
RUSSIAN, bk, Sibirskaya Yazva; Sbornik
Organizatsionnykh i Metodicheskikh Materialov,
Moscow, 1962, pp 3-4, 40-68, 74-89.

JPRS 17203

Scientific
Medicine

Histopathological Changes in the Organs of Animals
After Administration of the Antibiotic Olivomycin,
by I. P. Belova, V. S. Muraveyskaya, 9 pp.
RUSSIAN, per, Antibiotiki, No 3, 1962, pp 57-59.
9200739

NIH 11-6-62

Late Changes in the Osseous System of Dogs in Radio-
active Strontium Affection, by N. N. Litvinov, 7 pp.
RUSSIAN, per, Arkhiv Patologii, No 11, 1962,
pp 23-28.

JPRS 17161

Selected Articles From the Russian Periodical
Azerbaydzhanskiy Meditsinskiy Zhurnal.

No 10, 1962.

JPRS 17222

Comparative Data on the Surgical Treatment of
Hip Joint Tuberculosis by Means of Autohetero-
and Homotransplantation of Bone, by N. N. Bunyadov,
11 pp, (pp 16-25).

Pathomorphological Changes in the Eye During Acute
Radiation Sickness, by V. M. Abdullayev, 8 pp,
(pp 31-35).

Protective Effect of Beta-Mercaptoethylamine
in Acute Radiation Sickness, by M. S. Isayev,
10 pp, (pp 36-42).

No 11, 1962, pp 15-20.

JPRS 17210

Clinical Effectiveness of Transfusion of a Dry
Leucocytic Mass in Leucopenic Conditions, by
M. E. Mirzoyeva, 9 pp.

Isolation, Purification, and Certain Properties
of the Type B CL. Botulinum Proteinase, by
I. P. Ashmarin, I. V. Vorontsov, et al, 10 pp.
RUSSIAN, per, Biokhimiya, Vol XXVII, No 5, 1962,
pp 788-793.

JPRS 17160

Protection Against Radiation, by Ye. Romantsev,
31 pp.
RUSSIAN, per, Bol'shaya Meditsin Entsiklopediya,
Vol XXVI, 1962, pp 1150-1168.

JPRS 16995

Disturbance in the Reactions of the Hematopoietic
System at Lat Postirradiation Periods, by N. I.
Shmeleva, 7 pp.
RUSSIAN, per, Byul Eksper Biol i Medit, Vol LIII,
No 4, 1962, pp 38-42. 9667366

FTD-TT-62-823

Scientific
Medicine (Contd)

The Effect of Oxygen Deficiency and Prolonged Radial Accelerations on the Organisms of Animals, by N. A. Agadzhanian, A. R. Mansurov, 9 pp.
RUSSIAN, per, Byul Eksper Biol i Medit, Vol LIII, No 4, 1962, pp 42-46. 9667366

FTD-TT-62-825

Symposium on the Question of Fatigue and the Recovery of Fitness, by N. V. Zimkin, 5 pp.
RUSSIAN, per, Fiziol Zhur SSSR imeni I. M. Sechenova, Vol XLVIII, No 4, 1962, pp 499-501.

JPRS 16828

The Behavior of Thorium Dioxide in the Organism of Rates Following Its Intratracheal Administration, by Yan Syao-shan.
RUSSIAN, per, Gig Truda i Professional Zabol, Vol VI, No 10, 1962, pp 46-51.

*AEC

The Second All-Union Conference on the Use of Radioelectronics in Medicine and Biology, by B. N. Aksenov, 10 pp.
RUSSIAN, per, Iz Vyssikh Ucheb Zaved Priborostroyeniye, Vol V, No 5, Sep-Oct 1962, pp 140-147.

JPRS 16588

The Significance of Phono-, Vector- and Ballistocardiography in the Complex Investigation on Mitral Lesions of the Heart, by N. P. Malyshkin, 5 pp.
RUSSIAN, per, Kardiologiya, Vol II, No 5, 1962, pp 69-70.

JPRS 17171

Selected Articles From the Russian Periodical Khirurgiya, Zhur imeni N. I. Pirogova.

No 10, 1962.

JPRS 16866

Errors in the Treatment of the Burned, by A. A. Vishnevskiy, M. I. Shrayber, et al, 7 pp, (pp 6-11).

Radiation Burns, by V. A. Ivanov, V. N. Petushkov, 5 pp, (pp 11-15).

Clinical Aspects, Treatment and Prophylaxis of Burn Cachexia, by V. I. Filatov, 11 pp, (pp 15-22).

Acute Radiation Burns, by N. I. Karlashenko, 6 pp, (pp 22-25).

The Effect of Freeze-Drying on the Antigenic Properties of Skin, by Ye. M. Sayakyants, 5 pp, (pp 28-31).

Scientific
Medicine (Contd)

Selected Articles From the Russian Periodical
Khirurgiya, Zhur imeni N. I. Pirogova. (Contd)

- No 10, 1962. JPRS 16866
Bacteremia As One of the Pathogenetic Factors
in Burn Sickness, by A. M. Yakovlev,
O. S. Krasnopevtseva, et al, 10 pp, (pp 34-40).
- No 11, 1962. JPRS 16904
Arterial Alloplasty With Soviet Knitted
Prostheses, by A. N. Filatov, N. G. Kartashevskiy,
et al, 6 pp, (pp 20-24).
- Alloplasty of the Main Blood Vessels of the
Extremities, by N. I. Krakovskiy, V. Ya.
Zolotarovskiy, 8 pp, (pp 24-30).
- Capsule Formation and Regenerative Processes
After Alloplasty of Esophageal Segments, by
V. P. Kulik, 9 pp, (pp 81-87).
- Experience in Reconstruction of Defects in the
Anterior Abdominal Wall by the Alloplastic
Method, by A. Ya. Fishchenko, 7 pp, (pp 87-92).
- Plastic Repair of the Anterior Abdominal Wall
With Porolon, by I. S. Vasilenko, S. N.
Mukhoyedova, 6 pp, (pp 92-96).
- Radiation Therapy in Nervous Diseases, by M. D.
Gal'perin, 11 pp.
RUSSIAN, per, Medit Radiolog, No 9, 1962, pp 62-70. JPRS 16682
- The Effect of Tiocensis of Intestinal Microflora on
the Development of Radiation Sickness, by G. G.
Vasilenko, 6 pp.
RUSSIAN, per, Mikrobiolog Zhur, Vol XXIV, No 5, 1962,
pp 35-38. JPRS 17170
- On Besnoitosis of Cattle in Kazakhstan, by B. P.
Vsevolodov, 13 pp.
RUSSIAN, per, Natural Focuses of Diseases and
Problems of Parasitology, No 3, 1961. CSIR Tr No 251

Scientific
Medicine (Contd)

A Comparison of the Central Depressing Action of Medinal, Baraabail, and Thiopental During Acute Radiation Sickness in Rats and Rabbits, by M. Dostal, Gradets Kralove 6 pp.
RUSSIAN, per, Patolog Fiziol i Eksper Terapiya, Vol VI, No 5, Sep-Oct 1962, pp 60-63.

JPRS 17202

Cage for Metabolism Experiments on Rats Using Radioactive Substances, by V. Volf, 6 pp.
RUSSIAN, per, Physiologia Bohemoslovenica, Vol VII, No 2, 1958, pp 216-220.

CSIR Tr No 253

Selected Articles From the Russian Periodical Priroda, Vol L, No 9, 1962.

JPRS 16899

Attack on Cancer, by N. N. Blokhin, 18 pp, (pp 32-36).

Conditioned Reflex and Related Phenomenia, by E. A. Asratyan, 21 pp, (pp 37-43).

Evolution of the Higher Nervous Activity and Psychics, by D. A. Biryukov, 21 pp, (pp 44-49).

Molecules of Life, by A. S. Kribiskiy, 8 pp, (pp 83-91).

The Significance of the Adrenal Glands to the Heat Resistance of an Organism, by F. T. Agarkov, V. A. Maksimovich, et al, 10 pp.
RUSSIAN, per, Problemy Endokrin i Gormonterapii, Vol VIII, No 5, 1962, pp 15-20.

JPRS 17250

Special Methods of Diagnosing Diseases of the Heart and Vessels, by B. V. Petrovskiy, G. M. Solov'yev, 9 pp.
RUSSIAN, per, Sovet Meditsina, No 5, 1962, pp 3-9.

JPRS 16858

Sixth Conference of the Ministers of Public Health of the Countries of the Socialist Camp, by G. A. Popov, 28 pp.
RUSSIAN, per, Sovet Zdravookhraneniye, Vol XX, No 12, 1961, pp 6-24.

JPRS 17099

The Minsk Medical Institute and its Assistance to Public Health Organs, by D. P. Belyatskiy, Ye. I. Shishko, 7 pp.
RUSSIAN, per, Sovet Zdravookhraneniye, No 4, 1962, pp 53-56.

JPRS 16828

Scientific
Medicine (Contd)

- I. I. Mechnikov and the Odessa Bacteriological Station, by R. I. Belkin, 7 pp.
RUSSIAN, per, Sovet Zdravookhraneniye, No 9, 1962, pp 61-67. JPRS 16827
- Restoration of Vital Functions During the State of Clinical Death Caused by Mechanical Asphyxia, by G. P. Prozorovskaya, 12 pp.
RUSSIAN, per, Sudebno-Medit Ekspertiza, No 4, 1962, pp 16-23. JPRS 17162
- Aspects of Changes in Protein Fractions and Glycoproteides in Rheumatism and Inflammatory Disorders in Transpolar Conditions, by Yu. M. Gubachev, 9 pp.
RUSSIAN, per, Terapev Arkhiv, No 11, 1962, pp 46-51. JPRS 17240
- Summary of Scientific Research in Pediatrics in 1960 and 1961 and Future Tasks in the Field, by M. Ya. Studenikin, R. A. Kalyuzhnaya, 30 pp.
RUSSIAN, per, Vest Ak Med Nauk SSSR, No 10, 1962, pp 3-14. JPRS 16926
- Biochemical Mechanisms of Radiation Sickness, by V. M. Rodionov, 17 pp.
RUSSIAN, per, Vest Ak Med Nauk SSSR, Vol XVII, No 9, 1962, pp 43-58. JPRS 16772
- The Problem of Scientifically Substantiating the Degree of Epidemiological Effectiveness of Various Vaccines, by O. V. Baroyan, 12 pp.
RUSSIAN, per, Vest Ak Med Nauk SSSR, Vol XVII, No 9, 1962, pp 76-84. JPRS 16772
- Decangerogenization of the Products of Bituminous Shale Treatment, by P. A. Bogovskiy, 8 pp.
RUSSIAN, per, Vest Ak Nauk SSSR, Vol XXXII, No 8, 1962, pp 72-75. JPRS 16734
- The Use of Ultrasound in Diagnosing Some Surgical Illnesses, by D. I. Tsurupa, 9 pp.
RUSSIAN, per, Vest Khirurgii, Vol LXXXIX, No 9, 1962, pp 63-69. JPRS 16868
- The Fifth Scientific Session of the NIIKHAIL by A. G. Milashkin, G. B. Estrin, 5 pp.
RUSSIAN, per, Vest Khirurgii, Vol LXXXIX, No 9, 1962, pp 147-149. JPRS 16868
- New Lines of Development in Physiology and Their Relation to Cybernetics, by M. A. Bernshteyn, 14 pp.
RUSSIAN, per, Voprosy Filosofii, No 8, 1962, pp 78-87. JPRS 17102

Scientific
Medicine (Contd)

Change in the Content of Biologically Active Substances
in Rats Following in the Action of Radial Accelerations,
by I. M. Khazen, I. L. Vaysfel'd, 9 pp.

RUSSIAN, per, Voprosy Med Khim, Vol VIII, No 5,
Sep-Oct 1962, pp 493-497.

JPRS 16956

Mechanism of the Antiedematous Action of Parenterally
Administered Crystalline Proteinases, by K. N.
Veremeyenko, 11 pp.

RUSSIAN, per, Voprosy Med Khim, Vol VIII, No 5,
Sep-Oct 1962, pp 525-531.

JPRS 16956

Biochemistry of the Nervous System, by N. N. Demin,
L. Z. Pevzner, 12 pp.

RUSSIAN, per, Voprosy Med Khim, Vol VIII, No 5,
Sep-Oct 1962, pp 553-558.

JPRS 16956

Selected Articles From the Russian Periodical
Voprosy Psikholog.

No 6, 1961, pp 136-146.

*RAND

Physiological Analysis of Some Complex Forms of
Behavior, by A. V. Napalkov.

No 4, Jul-Aug 1962

JPRS 17219

Methods and Systems for the Automatic Analysis
of Brain Biopotentials, by V. D. Nebylitsyn,
18 pp, (pp 58-73).

Engineering Psychology and Work Safety, by
Yaro Krzhivoglav, 12 pp, (pp 89-98).

All Union Conference on Philosophical Problems
Related to the Physiology of Higher Nervous
Activity and Psychology, by A. M. Matushkin,
F. A. Sokhin, 17 pp, (pp 172-182).

Selected Articles From the Russian Periodical
Zhur Mikrobiol Epidemiol i Immunobiol.

No 7, 1962, pp 125-130.

ACSI I-5016-C
ID 2211726

Features Peculiar to the Course of Combined
Brucellosis and Q-Rickettsiosis in Guinea Pigs,
by E. N. Knyazeva, 5 pp.

No 11, 1962.

*USDA

Aerosol Immunization With Dry Powder Vaccines and
Toxoids. Communication X. Clinical Study of
Postvaccinal Reactions in Response to Aerosol
Immunization With the Powder Brucellosis Vaccine,
by N. I. Aleksandrov, et al, (pp 31-37).

Scientific
Medicine (Contd)

Selected Articles From the Russian Periodical
Zhur Mikrobiol Epidemiol i Immunobiol. (Contd)

No 11, 1962.

*USDA

A Comparative Study of the Intranasal and Aerosol
Methods of Vaccination Against Influenza, by
V. M. Zhdanov, et al, (pp 63-67).

C-Reaction Protein and Its Immunological Importance
in Immunization With the NIISI Polyvaccine.
Communication I. The Duration of C-Reactive Protein
Retention and Correlation with Nonspecific Indices
of the Physiological State of the Body Following
Immunization With the NIISI Polyvaccine, by
M. A. Zolocheskiy, et al, (pp 106-110).

Diagnostic Significance of the Mirror Symptom in the
Delusional Form of Schizophrenia, by A. A. Zaytsev,
M. Ye. Papliyan, 5 pp.
RUSSIAN, per, Zhur Nevropatologii i Psikhatrii,
Vol XX, 1951, pp 70-72. 9201008

NIH 12-6-62

An Automatic Programming Device for Investigating
Motor Defensive Conditioned Reflexes, by D. M.
Belov, S. S. Krylov, et al, 11 pp.
RUSSIAN, per, Zhur Vysshey Nervnoy Deyatel'nosti,
Vol XII, No 5, 1962, pp 969-974.

JPRS 16994

An Intoxication Case With Phosgene Oxime, by I. S.
Chanachev.
BULGARIAN, per, Nauchni Trudove Visshiya Meditsinska
Institut, Vol V, 1958, pp 173-183.

ACSI I-8119
ID 2216552

Investigation of Cause of Apoplectic Death in the
Case of Anthrax, by F. W. K. De Moulin, 37 pp.
DUTCH, bk, Nederlandschindische Bloden voor
Diergeneeskunde, Vol XLVIII, 1936, pp 126-184.

ACSI I-7017
ID 2216533

Theory of Bacteriostatic Chemotherapeutic Action.
GERMAN, rpt, Theorie der Wirkung Bakteriostatischer
Chemotherapeutica, 1960, pp 317-400.

*ACSI I-7098
ID 2216541

Observations on Fracture, by Karl-Heinz Hofer.
GERMAN, per, Beitrag zur Frage der Standfestigkeit
von Bergfesten im Kalibergbau, pp 28-37.

Dept of Interior
TN7 E57 No 557

Nil Nocere! The Risk Involved in the Treatment
of Lead Poisoning With Calcium Versenate, by
E. Weinig, W. Schwerd, 12 pp.
GERMAN, per, Muench. Medizinische Wochenschrift,
Vol C, No 46, 1958, pp 1788-1791.

Navy Tr 3298/
NMS 746

Scientific
Medicine (Contd)

"Nicholas Rudinger: In Memoriam, by J. Ruckert,
12 pp.

GERMAN, per, Schweizerische Medizinische
Wochenschrift, No 42, 1896, pp 1017-1019.

Navy Tr 3295/
NMS 743

Clinical Examination and Therapy in Lead Poisoning.
Report on a Fatal Toxic Nephrosis due to Calcium
Versenate, by S. Moeschlin, 30 pp.

GERMAN, per, Schweizerische Medizinische Wochenschrift,
Vol LXXXVII, 1957, pp 1091-1096.

Navy Tr 3297/
NMS 745

The Problem of Maternal Predominance on the Course
of Heredity in Testicular Feminization, by
A. Scharplatz, 10 pp.

GERMAN, per, Schweizerische Medizinische Wochenschrift
Vol XCI, 1961, pp 371-374.

Navy Tr 3296/
NMS 744

Medical Science in Hungary, by Istvan Rusznyak,
9 pp.

HUNGARIAN, per, Orvosi Hetilap, Vol CIII, No 39,
30 Sep 1962, pp 1851-1854.

JPRS 17132

Operation of Open Pharmacies in Hungary, by
Wanda Anasiewicz, 8 pp.

POLISH, per, Farmacja Polska, Vol XVIII, No 15, 16,
pp 372-376.

JPRS 17130

The Price of Medicine and the Possibility of
Reducing It, 36 pp.

SPANISH, rpt, Informacion Comercial Espanola,
March 1962, Supplement: Economia Espanola, Mar 1962,
pp 121-135.

ACSI I-3051
ID 2211691

Investigating Local Thermal Effect of Electro-
magnetic 3 cm Waves on Animals, by V. I. Mirutenko,
11 pp.

UKRAINIAN, per, Fiziologichnyi Zhurnal, Vol VIII,
No 3, Jun 1962, pp 382-389. 9667361

FTD-TT-62-1361

Morphological Changes in Internal Organs When the
Organism is Exposed to the Effect of Centimeter
Waves, by S. F. Gorodetska, 8 pp.

UKRAINIAN, per, Fiziologichnyi Zhurnal, Vol VIII,
No 3, Jun 1962, pp 390-396. 9667361

FTD-TT-62-1361

Combination of Western and Eastern Medicines for
the Treatment of Encephalitis, by Nguyen Huu
Thuyet, 9 pp.

VIETNAMESE, per, Y Hoc Thuc Hanh, No 85, Sep 1962,
pp 5-8.

JPRS 17106

Scientific
Medicine (Contd)

Selected Articles From the Vietnamese Periodical
Y Hoc Viet Nam, No 2, 1962.

JPRS 17106

Surgical Treatment of 48 Cases of Alien Objects in the Lungs, a Study of the Lung Surgery Branch of the Army Hospital No 108; by Le Cao Dsi, Le Quang Trung, 15 pp, (pp 11-18).

Results of the Anti-Prostitution Fight in Vietnam, by Dang Vu Hy, 15 pp, (pp 30-37).

Iodosoja, a New Organic Iodine Drug, by Truong Cong Quyen, Nguyen Thi Diem Hong, et al, 8 pp, (pp 62-66).

Research on the Keeping of Penicillin in the Tropical Climate of North Vietnam, by Dang Hanh Khoi, Nguyen Van Tho, et al, 15 pp, (pp 66-73).

Some Characteristics of Stomach and Duodenum Ulcers of Inflammations Discovered Through One Year of Work in the X-Ray Department of the Army Hospital X, by Tran Quang Viep, Hoang Ky, et al, 17 pp, (pp 78-87).

Scientific
Minerals/Metals

X-Ray Investigation on Minerals of the Isomorphous Forsterite-Fayalite Series, by E. H. Elishev, 19 pp.
RUSSIAN, rpt.

CSIR Tr No 243

Determination of the Sign of a Local Magnetic Field in the Nuclei of Gold Dissolved in Iron and Nickel, by B. N. Samoilov, V. V. Sklyarevskiy, et al., 8 pp.
RUSSIAN, various sources, Moscow, 1961. 9200970

AEC-Tr-5476

Critical Currents of Nb-Zr Alloys in an External Magnetic Field, by V. D. Borodich, A. P. Golub, et al., 13 pp.
RUSSIAN, various sources, Moscow, 1962. 9200965

AEC-Tr-5473

Physical Chemistry of Molten Salts and Slags.
RUSSIAN, bk, Fizicheskaya Khimiya Rasplavlennykh Solei i Shlakov, 1962.

*AEC

Fundamentals of Metalworking Methods, by E. G. Konovalov.
RUSSIAN, bk, Osnovy Novykh Spособov Metalloobrabotki, Ak Nauk BSSR, Minsk, 1961, pp 92-100, 150-156, 246-262.

*FTD-TT-63-44

Influence of Mold Wall Thickness on the Quality of Ingots Cast From Nickel-Based Alloys, by S. A. Iodkovskiy, V. K. Novitskiy, et al., 24 pp.
RUSSIAN, bk, Slitok i Svoystva Stali, Konferentsiya po Fiziko-Khimicheskim Osnovam Proizvodstva Stali, Moscow, 1961, pp 47-60. 9667320

FTD-TT-62-1241

Survey and Investigation of Heat-Resistant Alloys in an Fe-Ni-Cr Base, by M. V. Pridantsev, F.I. Belikova.
RUSSIAN, rpt, Spetsial'nyye Stali i Splavy. Tsentral'nyy Nauchno-Issledovatel'skiy Institut Chernoy Metallurgii im. I. P. Bardina. Institut Kachestvennykh Staley, Moscow, No 27, 1962, pp 93-138.

*FTD-TT-63-12

Investigation of the Process of Reduction of Iron Ore Concentrates During Coking of Ore-Coal Mixtures, by K. I. Syskov, Tsi-Lyan, V.A. Preobrazhenskiy.
RUSSIAN, bk, Stal' Sbornik Statei, 1961, pp 3-12.

BISI 2952

Results Obtained With the Use of Natural Gas in the Open-Hearth Furnace, by V. P. Adrianova, et al.
RUSSIAN, bk, Stal' Sbornik Statei, 1961, pp 70-80.

HB 5604

Scientific
Minerals/Metals (Contd)

Structure of Some Uranium and Thorium Alloys.
RUSSIAN, bk, Stroenie Splavov Nekotorykh
Sistem s Uranom i Toriem, Moscow, 1961, 491 pp.

*AEC

Hard Compounds of Refractory Metals, by
G. V. Samsonov, Ya. S. Umanskiy.
RUSSIAN, bk, Tverdye Soyedineniya Tugo-
plavkikh Metallov, Moscow, 1957, 388 pp.

NASA TT F-102

Certain Features of Welding Titanium Under Flux,
by S. M. Gurevich.
RUSSIAN, per, Avtomat Svarka, No 5, 1957, pp 38-48.

*FTD-TT-63-22

First Seminar in the Department of Technical
Sciences of the AS UkrSSR on the Surface
Diffusion Saturation of Metals and Coatings
of Refractory Compounds on Metals and Non-Metals,
by O. P. Epik.
RUSSIAN, per, Dopovidi Ak Nauk Ukrain RSR, No 6,
1962, pp 837-839.

*FTD-TT-62-1926

Selected Articles From the Russian Periodical
Fiz Metal i Metallov.

Vol XIII, No 4, 1962, pp 550-554. 9667364
Phase Composition of Oxides of Niobium Base
Alloys, by G. V. Estulin, T. V. Yegorshina,
9 pp.

FTD-TT-62-1297

Vol XIII, No 5, 1962, pp 693-700. 9667417
Studying the Effect of Process Annealing on
the Structure and Properties of Casted Tung-
sten, by M. I. Gavriluk, I. N. Chaporova,
et al., 12 pp.

FTD-TT-62-1243

Vol XIII, No 6, 1962, pp 942-944.
Extrusion of Cast Iron by Hydrostatic
Pressure, by D. K. Bulyshev, B. I. Beresnev.

IIB 5713

Vol XIV, No 1, 1962.
Neutron-Diffraction Study of Nickel-Chromium
Alloys, by V. I. Goman'kov, et al, (pp 26-29).

IIB 5735

Effect of Cerium Upon the Self-Diffusion of
Iron, by A. P. Lyubchenko, V. I. Ermolayev,
(pp 157-160).

IIB 5734

On the Impregnated-Streaked Semimetallic Mineral-
ization in the Granites of the Chuiliyskiye
Mountains, by V. I. Volobuyev, 9 pp.
RUSSIAN, per, Iz Ak Nauk Kazakh SSR, Seriya
Geol, No 2, 1962, pp 24-31.

JPRS 16955

Scientific
Minerals/Metals (Contd)

Selected Articles From the Russian Periodical
Iz Vysshikh Ucheb Zaved, Chern Met.

- No 2, 1959, pp 83-92. BISI 2698
Influence of Alloy Elements on Hydrogen Permeability of Steels and Binary Alloys on an Iron Base, by R. A. Ryabov, P. V. Gel'd.
- No 9, 1961, pp 79-86. HB 5438
Kinetics of Gas Evolution in [Consumable Electrode] Vacuum Arc Melting, by L. N. Belyanchik, et al.
- No 12, 1961, pp 130-134. 9667338 FTD-TT-62-1348
Dependence of Mechanical Properties of Eutectoid Steel Upon the Structural State of Perlite, by K. I. Tushinskaya, L. I. Tushinskiy, 6 pp.
- No 1, 1962, pp 95-102. 9667380 FTD-TT-62-1318
Cold Hardening and Recrystallization of ElG17 Alloy, by Ya. M. Okhrimenko, M.S. Tsibanova, 11 pp.
- No 3, 1962, pp 67-76. HB 5652
Automation of Electric Arc Furnace Steel-making, by V. M. Vinogradov.
- Method of Investigating the Hardness of Titanium- and Chromium-Carbide - Base Cermets at Normal and Elevated Temperatures, by N. I. Valuyev, 9 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Mashinostroyeniye, No 6, 1962, pp 124-128. JPRS 17040
- Oxidation of Uranium Dioxide, by V. G. Vlasov, A. F. Beonov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Tsvet Metallurg, No 5, 1962, pp 113-122. *FTD-TT-63-102
- "Sital" Competes With Metals, by A. Dikhtyar.
RUSSIAN, no, Komsomol Pravda, 14 Oct 1962, n 2. *FTD-TT-63-54
- Improved Deep Drawing of Austenitic Stainless Steels, by V. P. Martynov.
RUSSIAN, per, Kuz Shtamp Proiz, Vol III, No 5, 1961, pp 11, 12. HB 5593
- Press Forming of [Liquid] Steel, by N. N. Rubtsov, et al.
RUSSIAN, per, Liteinoe Proiz, No 7, 1959, pp 17, 18. HB 5363

Scientific
Minerals/Metals (Contd)

Effect of Cutting Parameters on the Quality of
the Machined Surface of Porous Powder Metal
Materials, by A. Ya. Artamonov, 8 pp.
RUSSIAN, per, Mashinostroyeniye, No 5, Sep-Oct 1962,
pp 32-35.

JPRS 16354

Aging of Tin-Lead Solders and of Joints Made
With Them, by A. S. Medvedev, 11 pp.
RUSSIAN, per, Metal i Obrab Metallov, No 7, 1956,
pp 16-23. 9201273

AEC-Tr-5463

Selected Articles From the Russian Periodical
Metal i Term Obrab Metallov.

No 8, 1960, pp 31-34.
Semi-Automatics for Hardening of Files. Data
Sheet.

HB 5484

No 9, 1960, pp 42-45.
Recrystallization of the Magnetostrictive
Alloy 'Permandur', by A. S. Gol'denburg.

HB 5493

No 12, 1960.
Effect of Allotropic Transformations on the
Sintering of Iron Powder, by A. A. Shmykov,
V. S. Saklinskiy, (pp 35, 36).

HB 5530

Activated Sintering of Iron Powder, by
R. A. Andrievskiy, I. M. Fedorchenko, (pp 36-39).

HB 5531

Study of Cementite in Iron-Graphite [Powder]
Alloys, by N. Z. Pozdnyak, E. K. Ponomarenko,
(pp 39-41).

HB 5532

Effect of Copper and Graphite on Properties
of Sintered Iron-Base Alloys, by V. K. Sorokin,
(pp 42, 43).

HB 5533

Development Perspectives for Heat-Treatment
Technology, by A. D. Assonov, (pp 44-49).

HB 5534

Progressive Heat-Treating Methods at the
"Krasnyi Proletarii" Works, by F. Ya. Chervyakov,
(pp 49-52).

HB 5535

No 3, 1961, pp 47-51. 9667349
Deformation Diagram of Steel Hardened From
Temperature A_{c1} - A_{c3} , by G. I. Pogodin-Alekseyev,
B. A. Artamonov, 9 pp.

FTD-TT-62-1299

Scientific
Minerals/Metals (Contd)

Selected Articles From the Russian Periodical
Metal i Term Obrab Metallov. (Contd)

No 11, 1961. 9679276

FTD-TT-62-1245

The Replacement of Nickel by Manganese and Nitrogen in Stainless Steels, by A. A. Babakov, 9 pp, (pp 25-29).

Kh 17N4G9 (E1878) Steel, A Substitute for Steels of the 1Kh18N9 and 1Kh18N9T Type, by V. V. Sachkov, V. I. Lavrov, et al., 7 pp, (pp 30-33).

Helical Springs Fabricated From 3Kh13 Steel, by A. P. Selyavo, N. M. Popova, et al., 8 pp, (pp 36-40).

No 1, 1962. 9667340

FTD-TT-62-1169

The Effect of High-Temperature Plastic Deformation on the Mechanical Properties of Heat Resistant Nickel-Base Alloys, by S. T. Kishkin, M. G. Lozinskiy, et al, 7 pp, (pp 38-40).

An Investigation of the Polygonization of Molybdenum by Means of High Temperature Metallography, by M. G. Lozinskiy, M. L. Bernshteyn, et al., 15 pp, (pp 57-64).

No 6, 1962.

*FTD-TT-63-2

Carbon in Iron-Aluminum Magnetically Soft Alloys, by B. V. Molotilov, (pp 2-5).

Deterioration of the Magnetic Properties of Magneto Alloys in the Case of "Lustreless" Fractures, by Ya. M. Dvblalevskiy, Ye. G. Povolotskiy, (pp 14-17).

No 10, 1962, pp 22, 23.

HB 5749

Fatigue Strength of Chromium-Plated Constructional Steel, by A. P. Grabovetskiy.

Continuous Casting of 260 Tons of Steel Without Interruption of the Pouring Stream, by F. M. Grigorev, I. I. Druzhinin.
RUSSIAN, per, Metallurg, Vol XXII, 1962.

*BISI 3073

Two Years of Experience in the Continuous Casting of Steel, by P. G. Glazkov, K. P. Murzov, et al, 10 pp.
RUSSIAN, per, Metallurg, No 11, 1962, pp 19-21.

JPRS 17023

Scientific
Minerals/Metals (Contd)

Microporosity of Beryllium Oxide Powder, by
S. M. Astrakhantsev.
RUSSIAN, per, Nauchnyye Doklady Vysshey Shkoly,
Metallurgiya, No 3, 1958, pp 226-230.

*AEC

Selected Articles From the Russian Periodical,
Ogneupory, No 10, 1962.

JPRS 16807

Structure and Properties of Chromite Ores
From New Deposits in Kazakhstan, by
S. M. Zubkov, En. N. Yusupova, 9 pp, (pp 449-453).

Certain Properties of a Porous Ceramic Made
of Beryllium Oxide, by I. Ya. Guzman,
D. M. Poluboyarinov, 10 pp, (pp 457-462).

Phase Composition of Carborundum Refractories
With a Silicaon Nitride Binder, by N. I. Voronin,
N. I. Krasotkina, 9 pp, (pp 463-468).

Properties of Certain Protective Coatings
Deposited on Metal by the Gas-Flame Spray
Method, by Yu. A. Pirogov, 7 pp, (pp 468-472).

Infiltration of Porous Titanium Carbide With Co-
balt, Nickel and Copper-Cobalt of Copper-Nickel
Alloys, by V. N. Eremenko, N. D. Lesnik.
RUSSIAN, per, Poroshkovaya Metallurgiya, Vol I,
No 1, 1961, pp 43-49.

HB 5579

Achievements and Prospects of Electroslag Re-
melting, by B. Ye. Paton, 11 pp.
RUSSIAN, per, Stal', No 11, 1962, pp 1001-1005.

JPRS 17016

Stainless Steels With Reduced Nickel Content,
by M. V. Pridmatsev, A. A. Babakov, 10 pp.
RUSSIAN, per, Stal', No 11, 1962, pp 1035-1039.

JPRS 17016

Effect of Vibration on the Formation and Quality
of Rimmed-Steel Ingots, by E. I. Rabinovich, et al.
RUSSIAN, per, Stal' Sbornik Statei, 1961,
pp 256-273.

HB 5607

Further Development of the Magnetographic Method
of Weld Inspection, by A. S. Ful'kevich.
M. Kh. Khusanov.
RUSSIAN, per, Svaroch Proiz, No 7, 1962, pp 25-28.

HB 5728

Covered Electrodes, the Coverings Containing
Iron Powder, for Underwater Welding, by
N. M. Madatov.
RUSSIAN, per, Svarochnoe Proiz, No 8, 1962,
pp 14-16.

HB 5692

Scientific
Minerals/Metals (Contd)

The Stability of Zirconium Alloys in a Circulating Aqueous Medium, by N. G. Rassokhin, V.N. Mel'nikov, 8 pp.
RUSSIAN, per, Teploenergetica, No 2, 1962, pp 60-62.
9201263

AEC-Tr-5414

Selected Articles From the Russian Periodical Titan i yego Splavy, Metallovedeniye Titana, Vol III, 1960.

JPRS 17155

Investigation of the Microstructure and Mechanical Properties of Alloys of Titanium With Aluminum, by N. N. Timoshenko, Ye. V. Petunin, 10 pp, (pp 3-9).

Effect of Heat Treatment on the Structure and Properties of Titanium Alloys, by B. A. Borok, L. S. Golubev, et al, 12 pp, (pp 10-16).

Powder Metal Alloys With High Specific Tenacity, by R. P. Shchegolev, L. S. Golubev, 11 pp, (pp 84-89).

Development and Investigation of Titanium-Base Powder Metal Alloys, by N. N. Timoshenko, Ye. V. Petunin, 11 pp, (pp 99-106).

Rolling Titanium Powder Into Thin Strip by the Gorkiy Polytechnic Institute Method, by G. I. Aksenov, V. G. Khromov, et al, 11 pp, (pp 152-158).

Detecting Oxygen in Alkali Metals and Their Alloys by the Method of Mercury Extraction, by Ye. D. Malikova, Z. M. Turovtseva, 7 pp.
RUSSIAN, per, Trudy Ak Nauk SSSR, Komissiya po Analiticheskoy Khim, Analiz Gazov v Metallakh, Vol X, 1960, pp 91-96. 9667415

FTD-TT-62-1338

Methods of Preparing Analysis Samples of Alkali Metals for Vacuum Extraction, by V. T. Kharlamov, 5 pp.
RUSSIAN, per, Trudy Ak Nauk SSSR, Komissiya po Analiticheskoy Khim, Analiz Gazov v Metallakh, Vol X, 1960, pp 117-121. 9667415

FTD-TT-62-1338

Methods for the Oxidation of Coal by Means of Ionizing Radiation, by I. E. Petrenko.
RUSSIAN, per, Trudy Inst Gory, Iskopaemykh, Ak Nauk SSSR, Vol XIV, 1960, pp 91-97.

Dept of Interior
TN7 E57 No 596

Scientific
Minerals/Metals (Contd)

Investigation of Some Technological Characteristics
of Electric Spark Working of Heat-Resistant Alloys
on a Nickel Base, by V. P. Aleksandrov, 20 pp.

RUSSIAN, per, Trudy Kubyshev Aviat Instit,
Tekhnolo Mashinostroyeniya, No 10, 1960, pp 61, 62.
9667382

FTD-TT-62-1248

The Effect of the Composition and the Nature of
Gaseous Media on the Anti-Wear Properties of
Petroleum Lubricating Oils, by M. D. Bezborod'ko,
N. T. Pavlovskaya, 15 pp.

RUSSIAN, per, Trudy Tret'yey Vsesoyuznoy
Konferentsii po Treniyu i Iznosu v Mashinakh,
Vol III, 1960, pp 177-186. 9667363

FTD-TT-62-1173

Selected Articles From the Russian Periodical
Tsvetnyye Metally.

No 2, 1962, pp 60-65.

JPRS 16841

Investigation of the Process of Sintering
Niobium Powder, by V. M. Amosov, 10 pp.

No 11, 1962.

JPRS 16855

Investigation of the Deformation Texture of
Rolled Niobium, by D. I. Layner, V. Ya. Solov'yev,
et al, 8 pp, (pp 80-85).

Vacuum Rolling of Chemically Active Metals, by
V. Ya. Ivanov, S. F. Kovtun, et al, 5 pp,
(pp 85-88).

What Occurs in Excess Modification of a
Silumin, by Ye. A. Boom, 6 pp, (pp 89-92).

Nerves of Metal.

RUSSIAN, np, Uchitel'skogo Gazeta, 18 Nov 1961, p 4.

FTD-TT-63-53

Selected Articles From the Russian Periodical
Zavod Lab.

Vol XXVIII, No 8, 1962.

The Spectrographic Analysis of Iron Ores,
by E. I. Andreyev, et al, (pp 938-940).

HB 5740

Chemical-Spectrographic Method for the
Determination of Niobium in Ores and
Similar Materials, by L. E. Berenshtein,
(pp 940, 941).

HB 5736

Scientific
Minerals/Metals (Contd)

Selected Articles From the Russian Periodical
Zavod Lab. (Contd)

Determination of Iron in Blast-Furnace
Sinter, by P. D. Korzh, V. I. Ivanov,
(pp 965, 966). HB 5737

Metallographic Development of the 475°C
(890°F) Embrittlement in Austenitic-Ferritic
Chrome-Nickel Steel Welds, by N. I. Kopersak,
(pp 968, 969). HB 5288

Vol XXVIII, No 11, 1962, pp 1345, 1346.
Ultrasonic Detection of Fatigue Damage
in Materials, by P. V. Ponomarev. HB 5786

Single-Stage [Direct] Production of Silico-
Chromium, by S. Butkova.
CZECH, per, Hutník, Vol XII, No 6, 1962, pp 293-295. HB 5701

Microdetermination of Carbon in Proton Irradiated
Iron, by J. J. Point.
FRENCH, np, Paper No UNESCO/NS/RIC/48. *BISI 3098

Floor Varnishes, 45 pp.
FRENCH, per, Cahiers du Centre Technique du Bois,
No 51, May 1962. CSIR Tr No 246

Deoxidation Tests With an Aluminium-Titanium
Alloy and Effect on the Properties of Deep
Drawing Sheet, by K. O. Zimmer.
FRENCH, per, Centre de Documentation Siderurgique
Circulaire, Vol XVIII, No 11, 1961, pp 2415-2420. *BISI 3040

Stirring Trials on Killed Steel in Ingot Moulds,
by R. Perie.
FRENCH, per, Centre de Documentation Siderurgique
Circulaire d'Informations Techniques, Vol XVI,
No 4, 1959, pp 899-902. BISI 3060

Selected Articles From the French Periodical
Memoires (Les) Scientifiques de la Revue de
Metallurgie.

Vol LVIII, Jul 1961, pp 517-534. BISI 2609
Surface Tension of Molten Iron and Its Alloys,
Part II, by P. Kozakevitch, G. Urbain.

Vol LVIII, Sep 1961, pp 677-698. BISI 3017
Contribution to the Study of Oxidation of Mag-
netite in Air at Elevated Temperatures, by
J. Paidassi, J. Lopez.

Scientific
Minerals/Metals (Contd)

Selected Articles From the French Periodical
Memoires (Les) Scientifiques de la Revue de
Metallurgie. (Contd)

Vol LVIII, Dec 1961, pp 931-947.

BISI 2609

Surface Tension of Molten Iron and Its
Alloys, Part III, by P. Kozakevitch,
G. Urbain.

Vol LIX, No 4, 1962, pp 273-285.

BISI 3015

Contribution to the Study of the Plastic
Deformation of Sheet Materials, by
G. Jegaden, J. Voinchet, P. Rocquet.

Continuous Prerrefining of Hot Metal in the Blast
Furnace Launder by Blowing Pure Oxygen Through
Porous Tiles, by P. Leroy, R. Simon.
FRENCH, per, Revue de Metallurgie, Vol LIV, 1957,
pp 793-812.

*BISI 3047

Life of Ingot Moulds - Investigation of Scatter -
Progress to be Made, by J. Duflot, J. Durand,
J. C. Margerie.
FRENCH, per, Revue de Metallurgie, Vol LVII,
Jul 1960, pp 573-587.

BISI 2892

The Welding of Austenitic CR-NI Cast Steel for
High-Temperature Applications, by K. Gut,
A. Werner.
FRENCH, per, Revue de Metallurgie, Vol LIX, 1962,
pp 511-518.

*BISI 3053

Ferromagnetisms, by R. Becker, W. Doring.
GERMAN, bk, Die Spannungsenergie Springer,
Chapter XI, 1939, pp 128-147.

*AFCL Res Lib

Steel Tubular Structures, by V. Dundrova.
GERMAN, per, Acta Technica, Vol XXXV-XXXVI,
1961, pp 555-574.

*BISI 3100

Selected Articles From the German Periodical
Archiv Eisenhüttenwesen.

Vol XVII, 1944, pp 227-234.

*BISI 3087

Influence of the Steel on the Service Life
on Gudgeon Pins, by E. Mickel, P. Sommer.

Vol XXXII, No 5, 1961.

Sintering, Degassing, and Reduction, Part IA
of the Kinetics of Iron and Steelmaking Re-
actions, by L. von Bogdandy, (pp 275-280).

HB 5333

Scientific
Minerals/Metals (Contd)

Selected Articles From the German Periodical
Archiv Eisenhüttenwesen. (Contd)

- Vol XXXII, No 5, 1961.
Sintering, Degassing and Reduction, by
L. von Bogdandy, (pp 280-286). IIB 5585
- Vol XXXII, Nov 1961, pp 779-790. BISI 2668
The Equilibrium Solubility of Hydrogen in
Pure Liquid Nickel and Iron, and the Influence
of Oxygen in the Iron, by H. Schenck, H. Wunsch
- Vol XXXIII, Mar 1962, pp 195-210. BISI 2931
The Ternary System Iron-Phosphorus-Niobium,
by R. Vogel, W. Bleichroth.
- Vol XXXIII, No 4, 1962, pp 229-232. HB 5584
Calculation of the Activities of Carbon and
Aluminum in the Iron-Carbon- Aluminum System
at 1600°C Using a Digital Computer Part II,
by H. Schenck.
- Vol XXXIII, No 5, 1962, pp 311-316. HB 5655
Determination of Defect Size in Forgings by
an Ultrasonic Technique, by P. Opel, G. Ivens.
- Vol XXXIII, No 6, 1962.
Course of Oxidation of Iron and Carbon in the
Decarbonization of Iron Carbon Alloys, by
K. Bohnenkamp, (pp 359-367). *BISI 3065
- Carburization and Decarburization of the
Peripheral Zone of Non-Alloy Steels in the
Gas Phase Between 900° and 1200°C, by
W. Lauprecht, W. Radeker, (pp 371-383). *BISI 3070
- Investigations of the Rolling Texture of Iron
and Body-Centred Cubic Iron Alloys, by
J. Bennewitz, (pp 393-403). *BISI 2945
- Vol XXXIII, No 7, 1962.
Removal of Copper From Pig Iron and Lead by
the Use of Sodium Sulfide Slags, by
H. Schenck, G. Perbix, (pp 417-420). IIB 5708
- Coulometric Determination of the Hydrogen
Content of Steel by the Carrier-Gas Method,
by E. Geigerl, (pp 453-455). IIB 5583

Scientific
Minerals/Metals (Contd)

Selected Articles From the German Periodical
Archiv Eisenhüttenwesen. (Contd)

- Vol XXXIII, No 8, 1962, pp 527-531. HB 5716
Rapid Determination of Oxygen in Steel
by a High-Vacuum Fusion Procedure, by
T. Kraus.
- Vol XXXIII, No 9, 1962.
Effect of Carbon and Molybdenum on the
Precipitation Processes, Especially on
the Formation of Intermetallic Phases,
in Austenitic Chromium Nickel Steels by
H. Wiegand, M. Doruk, (pp 559-566). *BISI 3059
- Studies of Nitrogen Absorption of Liquid
Iron Alloys at Pressure of Up to 4 Atms,
by H. Schenck, (pp 593-600). *HB 5751
- Combined Effect of Deformation Conditions
and Inclusions on Properties of Longitudinal
and Transverse Samples of Heavy Plate, by
H. A. Vogels, (pp 649-659). *BISI 3102
- Magnetic Measurement on the Ageing of
Iron Due to Nitrogen, by F. Erimann-
Jesnitzer, W. Precht, (pp 669-679). *BISI 3089
- Metallographic Determination of Ferrite
Formation in Austenitic Chromium-Nickel
Steel, by W. Pepperhoff, H. E. Buhler,
(pp 711-713). *BISI 3090
- Damping Behaviour of Iron-Molybdenum Alloys
as Function of the Test Temperature, Cold
Working and Heat Treatment, by E. Schmidtman,
H. D. Liannen, (pp 715-722). *BISI 3091
- Processes in Steel Recarburising Baths (Experiments
With C14), by H. Ornig.
GERMAN, per, Atompraxis, Vol VI, No 4/5, 1960,
pp 129-132. *BISI 3074
- New Operational and Technical Developments in
the Continuous Casting of Steel. Part II, by
A. Bungeroth, E. Scheufele.
GERMAN, per, Berg und Hüttenmännische Monatshefte,
Vol CVII, No 4, 1952, pp 82-87. HB 5697

Scientific
Minerals/Metals (Contd)

Experiences With the Continuous Casting of Stainless Steels. Part I, by M. Petz.

GERMAN, per, Berg- und Huttenmannische Monatshefte, Vol CVII, No 4, 1962, pp 157-162.

HB 5644

The Continuous Casting of Automobile Steels, by G. Renoul.

GERMAN, per, Berg- und Huttenmannische Monatshefte, Vol CVII, No 4, 1962, pp 168-173.

HB 5645

Rapid Method for the Volumetric Determination of Zirconium in Zirconium Silicate, by T. Boethin, et al.

GERMAN, per, Chemische Tech, Vol XIII, No 6, 1961, pp 365-366.

HB 5577

The Sensibilisation of Stabilized and Non-Stabilised Austenitic Steels Resulting From Chromium Carbide, by H. J. Rocha.

GERMAN, per, DEW-Technische Berichte, Vol II, No 1, 1962, pp 16-24.

*BISI 3086

Oxide Inclusions in Liquid and Solid Steel, by M. Wahlster.

GERMAN, per, Freiberger Forschungshefte, 1962, pp 47-70.

*BISI 3050

Decarburization and Nitriding of Ferro-Alloys in Poland, by B. Pacqula.

GERMAN, per, Freiberger Forschungshefte, 1962, pp 71-79.

*BISI 3051

Relative Hardness and Degree of Normality as Criteria for the Evaluation of Gray Cast Iron, by W. Patterson.

GERMAN, per, Giesserei, Vol XLV, No 14, 1958, pp 385-387.

HB 5710

The Melting of Cast Iron in Electric Arc and Induction Furnaces, by B. Marincek.

GERMAN, per, Giesserei, Vol XLIX, No 15, 1962, pp 414-417.

HB 5586

The Flaven Furnace, an Oil-Fired Reverberatory Shaft Furnace for [Gray-Iron] Foundries, by H. Pacyna.

GERMAN, per, Giesserei, Vol XLIX, No 15, 1962, pp 417-421.

HB 5695

Scientific
Minerals/Metals (Contd)

Corrosion and Precipitation Processes in Heat-Resisting Austenitic Chrome-Nickel Steels for the Petrochemical and Oil-Refining Industries, by P. H. Huppertz.

GERMAN, per, Industrie-Anzeiger, No 101, 19 Dec 1961, pp 29-33.

HB 5738

Cold Formed Bolts and Nuts From Rust and Acid Resistant Steels, by C. O. Bauer.

GERMAN, per, Industrie-Anzeiger, No 49, 1962.

*BISI 3052

Activation and Analytical Purity Testing of Rare Earths, by H. Grosse-Ruyken, H. Rommel.

GERMAN, per, Isotopentechnik, No 3, 1962, pp 66-69.

*AEC

Plastic-Coated Metal, by H. Heiner.

GERMAN per, Kunststoffe Plastics, Vol IX, No 1, 1952, pp 32-33.

*BISI 3079

Recovery of Metallic Zinc From Zinc Residues, by K. Ruttewit.

GERMAN, per, Metallwissenschaft und Technik, Vol XVI, No 8, 1962, pp 733-736.

*BISI 3101

On the Use of Metal-Specific Indicators in Precipitate Titrations. VII. A New Rapid Direct Method of Determination of Microgram Amounts of Orthophosphate, by R. Puschel.

GERMAN, per, Mikrochimica Acta, 1960, pp 352-356.

*BISI 3094

Selected Articles From the German Periodical Neue Hütte.

Vol VI, 1961, p 78.

*BISI 3048

Experience Gained in Experimental Furnace Deoxidation by the Injection of Carbon in the Basic Bessemer Converter, by W. Kuntscher, G. Richau.

Vol VII, 1962.

Semi-Killed Steel Standardization, by F. Ebeling, (p 77).

*BISI E 3076

Investigations Into the Vacuum Degassing of Liquid Steel, by L. Szoke, (pp 94-102).

BISI 2836

Scientific
Minerals/Metals (Contd)

Selected Articles From the German Periodical
Neue Hütte. (Contd)

Vol VII, No 3, 1962, pp 164-166.
Profiling of Heat Treated Pre-Stressing
Steels St140-160, by W. Lehnert. *BISI 3078

Vol VII, No 10, 1962.
Improvement of Coercive Force of Tech-
nical Soft Iron for Relays, by G. Rassmann,
H. Wich, (pp 623-628). *BISI E 3071

Experimental Determination of the Distribution
of Molybdenum, Vanadium and Chromium Between
V-Ferrite and Martensite of Steels Containing
25% Chromium, by L. Brhacek, (pp 688-690). *BISI 2947

Investigations of Improvement of Raw Ingot
Surface by Use of Corrugated Pasteboard, by
W. Krauskopf. BISI 2893
GERMAN, per, Radex Rundschau, Apr 1961, pp 543-545.

Root Welding of Heavy Duty Pipes in Low and High
Alloy Steels, by R. Faulstich.
GERMAN, per, Schweissen und Schneiden, 1961,
pp 110-114, 160-165. *BISI 3044

Selected Articles From the German Periodical
Stahl Eisen.

Vol LI, 1931, pp 1033, 1034.
The Equilibrium of Carbon and Oxygen in
Molten Steel, by H. C. Vacher, E. H. Hamilton. *BISI 3049

Vol LXXXII, No 11, 1962, pp 687-692.
Transistorized Two-State Devices in Control
and Information Systems [With Special Reference
to Their Use in Steel Plants], by M. Syrbe. HB 5647

Vol LXXXII, No 14, 1962.
Developments in the Manufacture of High-
Strength [Steel] Wire, by C. Eisenhuth, (pp 945-952). HB 5664

Calculation of Time Required for the Purging
of Annealing Furnaces With a Controlled Atmosphere,
by R. Schneider, (pp 963-966). HB 5702

Vol LXXXII, No 16, 1962, pp 1099-1105.
Processes in the Remelting of Steel in the
[Consumable Electrode] Vacuum Arc Furnace, by
F. Sperner, G. Persson. HB 5691

Scientific
Minerals/Metals (Contd)

Selected Articles From the German Periodical
Stahl Eisen (Contd)

- Vol LXXXII, 1962.
Possibilities of Developing the Large Gas Area
Supply With Particular Consideration of the
West-German Iron and Steel Industry, by
W. Wunsch, (pp 1213-1222). *BISI 3046
- Experiments on the Reduction of Iron Ores in
the Revolving Tubular Furnace (Krupp-Sponge
Iron Process), by F. Lucke, H. Serbent,
(pp 1222-1232). *BISI 3063
- Vol LXXXII, No 19, 1962.
Operation of Modern Sinter Plants, by H. Garbe,
G. Brandes, (pp 1273-1278). HB 5715
- Experiments on the Production of Alloy Steels
in the Consumable-Electrode Vacuum Arc
Furnace, by W. Peter, H. Spitzer, (pp 1287-1289). HB 5700
- Vol LXXXII, No 20, 1962.
Measurement of Fumes and Dust Volumes From
70 Ton Electric Arc Furnaces Operated Partially
on Oxygen, by F. Harms, W. Riemann, (pp 1345-1348). HB 5719
- Operating Experience With the Continuous Casting
of Low-Carbon Steel Slabs, by W. Gerling,
K. H. Bauer, (pp 1349-1355). HB 5720
- Effect of Chemical Composition and Pretreatment
on the Force Required for Straightening, on
Change of Bar Diameter and Behaviour of Mechanical
Properties in Straightening Bright Steel Bars, by
O. Pawelski, (pp 1410-1422). *BISI 3062
- Vol LXXXII, No 21, 1962, pp 1432-1435.
Effect of Contamination by Copper and Tin
Upon Workability of Low Carbon Unalloyed
Steel, by M. Feller-Kniepmeier, M. Thiele. *HB 5752
- Vol LXXXII, 11 Oct 1962, pp 1445-1449.
Ion Exchange Resins for the Treatment of
High Sulphuric Acid Pickling Solutions, by
F. Stricker. BISI 3045

Scientific
Minerals/Metals (Contd)

Selected Articles From the German Periodical
Stahl Eisen (Contd)

- Vol LXXXII, No 22, 1962.
Prospects of Continuous Casting of (Steel)
Slabs for Rolling Into Wide-Strip and Plate,
by P. Desfossez, (pp 1469-1476). *HB 5742
- Possibilities in the Vacuum Treatment of
Liquid Steel, by A. Mund, (pp 1485-1499). *HB 5744
- How to Minimize Oxide Inclusions During
the Pouring and Freezing of Low-Carbon
Kinning Steels, by R. D. Baare, E. Boeckers,
(pp 1500-1511). *HB 5745
- 50 Years of Stainless Steel, by H. Krainer,
(pp 1527-1540). *BISI E 3081
- Integrated Quality Control - A New Way of
Eliminating Old Problems, by H. Knuppel,
A. Stumpf, (pp 1552-1560). *HB 5746
- Comparative Study of Sampling Practices for
Hydrogen Analysis in Liquid Steel, by H. Taxhet,
W. Thomich, (pp 1561-1565). *HB 5747
- Production Single Crystals by Powder Metallurgy,
by Stablein.
GERMAN, per, Technische Mitteilungen Krupp,
No 2, 1962, pp 45-49. *BISI 3072
- The Adhesion of Surface Layers on Metals, by
H. J. Engell.
GERMAN, per, Werkstoffe und Korrosion, Vol XI,
Mar 1960, pp 147-151. BISI 3018
- The Influence of Embedding Media on the Oxidation
and Corrosion Behaviour of Heating Alloys, by
H. Pfeiffer.
GERMAN, per, Werkstoffe und Korrosion, Vol XII,
1961, pp 669-680. *BISI 3056
- Selected Articles From the German Periodical
Z fuer Metallkunde.
- Vol XLVI, 1955, pp 77-83. AEC-Tr-5268
Studies on the Regular Law of Mass Action, by
Erich Scheil, 20 pp.
- Vol XLIX, No 7, 1958.
The Ternary System - Gallium-Arsenic-Zinc, by
W. Koster, W. Ulrich, 8 pp, (pp 361-364). 9068980 ACSIL Tr No 1263

Scientific
Minerals/Metals (Contd)

Selected Articles From the German Periodical
Z fuer Metallkunde. (Contd)

Vol XLIX, No 7, 1958.
The Detection of Impurities and Cold-Working
in Sintered Tungsten by the Measurement of
Residual Resistance, by Erich Krautz,
Hermann Schultz, 7 pp, (pp 399-403).

AEC-Tr-5315

Vol LIII, 1962, pp 593-600.
Investigation of Supercoolability of Metal
Melts, by J. Fehling, E. Scheil.

*BISI 3077

Electrodeposition of Metal From Solution in
Organic Solvent, by Yoshizo Takeda, 21 pp.
JAPANESE, per, Metals, Vol XXIX, 1959, pp 923-928.
9201254

AEC-Tr-5533

Selected Articles From the Japanese Periodical
Tetsu to Hagane.

Vol XLIV, No 9, 1958, pp 1058-1060.
Study of the Dephosphorizing Reaction in
a Five-Ton Experimental Oxygen Furnace, by
S. Maehara, S. Morita, Y. Hirose.

HB 5270

Vol XLVI, 1960, pp 1294-1296.
Anodic Marking of Differential Coating of
Electrolytic Tinplate, by O. Yanabu,
T. Watanabe.

*BISI E 3067

Vol XL, No 4, 1962, pp 477, 478.
Service Tests on Steel-Teeming Nozzles of
Special Design, by Y. Koike, et al.

HB 5711

Vol XL, No 6, 1962, pp 747-752.
On the Air Gap Between Billet and Mold, by
K. Ushijima.

HB 5633

Vol XLVIII, No 4, 1962, pp 472, 473.
Performance of Tar-Bonded Magnesite Brick
Linings of the Amagasaki Basic Oxygen Furnace,
by Y. Aoyama, H. Usui, A. Matsunaga.

HB 5677

Vol XLVIII, No 11, 1962.
Observations on the Injection of Oil Into the
Blast Furnace, by Y. Iijima, et al, (pp 1219-1221).

HB 5806

Effect of Vacuum Casting on the Quality of
Steels for Rolling, Part I, by Y. Kitamura, et al,
(pp 1338-1340).

HB 5807

Rimmed Steel Ingots Solidified Under Reduced
Pressure, by S. Watanabe, et al, (pp 1340-1342).

HB 5805

Scientific
Minerals/Metals (Contd)

Selected Articles From the Japanese Periodical
Tetsu to Hagane. (Contd)

- Vol XLVIII, No 11, 1962.
Rate of Carbon Elimination in the Basic Oxygen
LD Furnace, by T. Fuji, S. Ura, (pp 1372-1374). HB 5758
- Uranium Additions to Low-Carbon Steels, Part I,
by M. Hasegawa, I. Onoda, (pp 1438-1439). HB 5808
- On the Heat Treatment of Some Hot-Work Die
Steels, by M. Takeshita, et al, (pp 1454-1456). HB 5798
- Effect of Molybdenum, Manganese and Silicon
Upon Boron-Treated Manganese-Silicon and
Silicon-Chrome-Molybdenum Steels With Reduced
Carbon, by E. Asano, T. Ishida, H. Tan,
(pp 1456-1458). HB 5799
- A Method of Identification for Non-Metallic Inclusions
in Carbon Steels, by S. Rudnik.
POLISH, per, Hutnik, Vol XXVIII, No 6, 1961, pp 229-233. *BISI 3099
- Cermets-New Refractory Structural Materials and Their
Application, by Zenon Sobczyk, 9 pp.
POLISH, per, Mechanik, Vol XXXIV, No 7, 1961,
pp 360, 361. 9667386 FTD-TT-62-1264
- Simplified Calculation of the Amount of Scale
Formed on Carbon Steel While Being Heated, by
I. Frantiu.
RUMANIAN, per, Metalurgia si Constructia de Masini,
Vol XII, No 10, 1960, pp 865-867. HB 5056
- Comparative Data on the Use of Natural Gas in Blast
Furnaces, by M. Ispas.
RUMANIAN, per, Metalurgia si Constructia de Masini,
Vol XIV, 1962, p 654. HB 5771
- Hydrometallurgical Production of Nickel From
Nickel-Bearing Oxide-Silicate Iron Ores, by
K. Cazafura, J. Wohina, J. Zakrajsek, 14 pp.
SLOVENIAN, per, Rudarsko-Metalurski Zbornik,
No 1, 1962. 9201019 OTS 62-19467-1
PL-480
- The Barite Occurrences Around the Jerma Colliery
in Eastern Serbia, by M. Jeromie, 12 pp.
SLOVENIAN, per, Rudarsko-Metalurski Zbornik, No 1,
1962. 9201019 OTS 62-19467-1
PL-480

Scientific
Minerals/Metals (Contd)

The Enrichment Possibilities of Fe-Ni Ores From
the Regions of Mokra Gora and Vardiste, by
D. Ocepck, N. Cerk, 5 pp.
SLOVENIAN, per, Rudarsko-Metalurski Zbornik,
No 1, 1962. 9201019

OTS 62-19467-1
PL-480

Studying the Hardness of Tungsten Within
Temperature Ranges of From 20 - 2700°,
by V. O. Borisenko, G. S. Pasarenko.
UKRAINIAN, per, Dopovidi Ak Nauk Ukrain RSR,
No 8, 1962, pp 1053-1056.

*FTD-TT-63-101

Effect of Heat Treatment on Magneto-resistance
of Germanium, by V. V. Ribalka, A. V. Perceverseva.
UKRAINIAN, per, Ukrain Fiz Zhur, Vol VI, No 3,
1961, pp 424-425.

HB 5729

Scientific
Nuclear Physics

Some Problems in the Operation of the BR-5 Fast Neutron Reactor, by M. S. Pinkhasik, N. N. Aristarkhov.

RUSSIAN, bk, Nekotorye Voprosy Opyta Eksplutatsii Reaktori na Bystrykh Neitronakh Br-5, 1961, 29 pp.

AEC-Tr-5266

Production of Short-Life Radioisotopes in Reactor VVR-M, by I. A. Kondurov, D. A. Yashin.

RUSSIAN, rpt, Proiz Korotkozhivushchikh Radioizotopov na Reactore VVR-M, Paper No SM-32/5.

*AEC

Counting Statistics in Recording Nuclear Particles, by V. I. Goldanskiy, A. V. Kutsenko, M. I. Podgoretskiy, 478 pp.

RUSSIAN, bk, Statistika Otschetov Pri Registratsii Yadernih Chastits.

Hindustan Publishing Corp
(India)

Thematic Plan of Publication of the State Publishing House of Literature in the Field of Atomic Science and Technology for the Year 1962, 69 pp.

RUSSIAN, bk, Tematicheskii Plan Izdani Gosudarstvennogo Izdatel'stva Literatury v Oblasti Atomnoi Nauki i Tekhniki po 1962 God, 63 pp.

AEC-Tr-5243

Proceedings of the Tashkent Conference on the Peaceful Uses of Atomic Energy.

RUSSIAN, per, Trudy Tashkentskoi Konferentsii po Mirnomu Ispol'zovaniya Atomnoi Energii, Vol III, 1961, 502 pp.

*AEC

Machine for Checking the Radioactive Contamination of Clothing, by R. Mimaud, S. Cottignies, 5 pp.

FRENCH, CEA-2038, 1961, 9200973

AEC-Tr-5523

Decontamination Technique for Strongly Radioactive Water Used by Isolated Consumers, by Jean Bourrier, Pierre Bovard, Andre Grauby, 6 pp.

FRENCH, per, Comptes Rendus des Seances de l'Academie d'Agriculture de France, Vol XLVIII, 1962, pp 40, 41. 9201385

AEC-Tr-5455

Study of Irradiation Disorder of the U₂Mo Phase, by J. Bloch, J. Doulat, J. Blin, 6 pp.

FRENCH, per, Journal of Nuclear Materials, Vol III, 1961, pp 327-330.

AEC-Tr-5325

Scientific
Nuclear Physics (Contd)

Selected Articles From the German Periodical
Kernenergie.

- Vol V, No 4/5, 1962, pp 438-442. JPRS 16739
Nuclear Research and Nuclear Engineering in
the German Democratic Republic, by J. Muhlenpfordt,
11 pp.
- Vol V, No 6, 1962. JPRS 16739
New Developments in the Field of Magnetic
8-Spectrometers, by L. Werner, 21 pp, (pp 450-461).
- Investigations of Stray Radiation in the Rossendorf
Cyclotron Y-120-1, by H. Abel, W. Rossbänder,
14 pp, (pp 474-480).
- Nuclear Research and Nuclear Engineering in the
German Democratic Republic, by W. Hartmann, 25 pp,
(pp 489-496).
- Influence of Electrons on Nuclear-Spin Resonance
in Diamagnetic Substances: "Chemical" Displacement
and Indirect Interactions, by A. Abragam.
ITALIAN, per, Nuovo Cimento, Series X, Supplement
No 6, 1957. ERDL Ft Belvoir
T-1662
- Molecular Orientation and the Excitation and Dissocia-
tion Probability of the Hydrogen Molecule by Electron
Impact, by Nobuji Sasaki, Tsuneyo Nakao, 5 pp.
JAPANESE, rpt, Proceedings of the Imperial Academy,
Vol XI, 1935, pp 413-415. AEC UCRL-
Tr-848 (L)
- Molecular Orientation and the Dissociation Probability
of the Hydrogen Molecule by Electron Impact, by
Nobuji Sasaki, Tsuneyo Nakao, 5 pp.
JAPANESE, rpt, Proceedings of the Imperial Academy,
Vol XVII, 1941, pp 75-77. AEC UCRL-
Tr-849 (L)
- Performance of Plutonium Salts as Fuel for Power
Reactors, by M. Taube.
POLISH, per, Postepy Techniki Jadrowej, Vol VI,
Supplement No 15, 1962. *AEC

Scientific
Physics

Seismographs of Increased Sensitivity, by D. P. Kirnos, A. G. Moskvina, 11 pp.
RUSSIAN, bk, Apparatura i Metodika Nablyudeniya na Seysmicheskikh Stantsiyakh SSSR, Moscow, 1962, pp 75-80.

JPRS 17189

The Radiation Oxidation of Nitrogen. I. Kinetics of the Reaction of the Oxidation of Nitrogen Under the Action of Electron Impact and Its Connection With Ionization Processes, by M. T. Dmitriev, S. Ya. Pshezhetskiy.
RUSSIAN, bk, Deistvie Ioniziruyushchikh Izlucheniya na Neorganicheskie i Organicheskie Sistemy, Moscow, 1958.

*AEC

The Radiation Oxidation of Nitrogen. II. Kinetics of the Oxidation of Nitrogen Under the Action of Fast Electrons, by M. T. Dmitriev, S. Ya. Pshezhetskiy.
RUSSIAN, bk, Deistvie Ioniziruyushchikh Izlucheniya na Neorganicheskie i Organicheskie Sistemy, Moscow, 1958.

*AEC

Diffusion Burning (Combustion) of Liquids, by V. I. Blinov, G. N. Khudyakov.
RUSSIAN, bk, Diffuzionnoye Gereniye Zhidkostey, 1961, 208 pp.

ERDL, Ft Belvoir
T-1490

Physics of an Explosion, by F. A. Baum, et al.
RUSSIAN, bk, Fizika Vzryva, Chapters X-XV, Moscow, 1959.

ERDL, Ft Belvoir
T-1488

Gas Dynamics and Physics of Combustion, 168 pp.
RUSSIAN, bk, Gazodinamika i Fizika Goreniya, Moscow, 1959.

NASA-TT-F-79
PL-480

Selected Articles From the Russian Book Issledovaniya Po Fizike Atmosfery, No 3, 1962.

*RAND

Diffuse Reflection and Transmission of Light in Case of Rough Surface Separating Two Isotropic Mediums, by Yu. Mullaeva, (pp 5-21).

Spectral Distribution of Direct Solar and Diffuse Radiation, by O. Avasthi, (pp 23-70).

An Approximate Solution of Radiative Transfer Problem in Case of Anisotropic Scattering, by O. Avasthi, (pp 72-83).

Scientific
Physics (Contd)

Selected Articles From the Russian Book Issledovaniya v Oblasti Poverkhnostnykh Sil, Sbornik Dokladov na Konferentsii po Poverkhnostnym Silam, April 1960, Izdatel'stvo Ak Nauk SSSR, Moscow, 1961. 9667413

FTD-TT-62-429

Surface Forces and Their Influence on the Properties of Heterogeneous Systems, by B. V. Deryagin, 11 pp.

Investigation of the Adhesion Bond of Polymers by the Luminescent Method, by N. A. Krotova, L. P. Morozova, 12 pp.

Application of Infrared-Spectroscopy Methods for the Study of Adhesive-Underlayer (Polymer-Glass) Interaction, by N. A. Krotova, L. P. Morozova, 9 pp.

Diffusiophoresis of Aerosol Particles, by B. V. Deryagin, S. P. Bakanova, S. S. Dukhin, 9 pp.

Differential Counter for Condensation Nuclei, by A. I. Storozhilova, 9 pp.

Concerning Solution of the Kinetic Coagulation Equation, by G. A. Martinov, S. P. Bakanov, 14 pp.

A New Method of Obtaining Constant and Homogeneous Supersaturation, by B. V. Deryagin, P. S. Prokhorov, 7 pp.

On the Behavior of a Small Aerosol Particle in a Nonuniformly Heated Mixture of Gases, by S. P. Bakanov, B. V. Deryagin, 9 pp.

Investigations in the Field of Surface Forces, 86 pp. (pp 11-16, 48-54, 83-88, 197-231).

Construction With Fillers Made of Foam Plastics, by A. Ya. Aleksandrov, M. Ya. Borodin, et al. RUSSIAN, bk, Konstruktsii s Zapolniteyami Iz Penoplastov, 1962, 186 pp.

FTD-TT-63-61

Mathematical Apparatus of the Theory of Angular Momentum, by A. P. Yutsis, I. B. Levinson, 158 pp. RUSSIAN, bk, Matematicheskii Apparat Teorii Momenta Kolichestva Dvizheniya, 1960, 242 pp.

NASA TT F-98
PL-480

Scientific
Physics (Contd)

Determination of the Temperature Field and Thermal Stresses of Turbine Discs, by N. A. Minyaylenko, 88 pp. RUSSIAN, bk, Opredeleniye Temperaturnogo Polya i Teplovykh Napryazheniy v Turbinnykh Diskakh, 1960, pp 3-69. 9667376

FTD-TT-62-766

Plasma, The Fourth State of Matter, by D. A. Frank-Kamenetskiy, 187 pp. RUSSIAN, bk, Plazma - Chetvertoye Sostoyaniye Veshchestva, Moscow, 1961, 132 pp. 9667410

FTD-TT-62-508

Applied Thermodynamics and Heat Exchange by I. I. Novikov, K. D. Voskresenskiy. RUSSIAN, bk, Prikladnaya Termodynamika i Teploperedacha, Series of "Osnovy Yadernoy Energetiki", Gosatomazdat, Moscow, 1961, 548 pp.

*FTD-TT-62-17

Sharp-Surface Symmetrical Shapes of Nuclear Equilibrium, by V. M. Strutinskiy, N. Ya. Lyashchenko, N. A. Popov, 38 pp. RUSSIAN, bk, Simmetrichnye Figury Ravnovesiya Yadra s Rezkoi Poverkhnost'yu, October 1962. 9201272

AEC-Tr-5493

Twinkling of Light Sources on the Earth, by A. S. Gurvich, V. I. Tatarskiy, 13 pp. RUSSIAN, bk, Soveshchaniya po Issled. Mertsaniya Zvezd., Moscow-Leningrad AN SSSR, 1959, pp 33-46. 9667370

FTD-TT-62-1343

Some Notes on the Report by L. A. Chernov and M. N. Krom and on the Speech by E. A. Blyakhman, by V. I. Tatarskiy, 5 pp. RUSSIAN, bk, Soveshchaniya po Issled. Mertsaniya Zvezd., Moscow-Leningrad AN SSSR, 1959, pp 57-62. 9667370

FTD-TT-62-1343

Influence of Free Convection on the Heat Transfer Coefficient and Lift During Flow Past a Cylinder, by A. A. Pavlenkov. RUSSIAN, bk, Trudy Kuybyshevsk Aviats. Inst., No 12, 1961, pp 193-197.

*FTD-TT-63-126

Experimental Data on Measuring Variable Temperatures in Gas Flows by the Two Thermocouple Method, by N. N. Ogorodnikov. RUSSIAN, bk, Trudy Kuybyshevsk Aviats. Inst., No 12, 1961, pp 323-332.

*FTD-TT-63-126

Scientific
Physics (Contd)

Theory of Transfer Processes in a Plasma Across a Magnetic Field, by V. P. Silin, 13 pp.
RUSSIAN, rpt, Trudy Ak Nauk SSSR, Inst Fiziki imeni P. N. Lebedeva, Report A-83, 1962, 9201241

AEC UCRL-
Tr-869 (L)

Application of the Theory of Combined Control Systems to Adaptive Cybernetic Systems, by A. G. Ivankhnenko, 24 pp.
RUSSIAN, bk, Trudy I Mezhdunarodnogo Kongressa Mezh Federatsii po Avtomaticheskomy Upravleniyu, Iz Ak Nauk SSSR, 1961, pp 709-725. 9679274

FTD-TT-62-977

Interaction of Particles With the Surface of Metals, by U. O. Arifov.
RUSSIAN, bk, Vzaimodeystvie Atomnykh Chastits S Poverkhnost'yu Metalla, 1961, 324 pp.

*AEC

Selected Articles From the Russian Periodical Dok Ak Nauk SSSR.

Vol CXXIV, 1959, pp 529-532. 9201247
Convergence of Difference Schemes in the Class of Discontinuous Coefficients, by A. N. Tikhonov, A. A. Samarskiy, 6 pp.

AEC UCRL
Tr 8.6 (L)

Vol CXL, No 3, 1961, pp 583-586.
Velocity and Energy of the Tungus Meteorite, by K. P. Stanyukovich, V. A. Bronshten, 7 pp.

NASA TT-F-89

No 4, 1962.
Protective Effect of Phytolipopolysaccharides and VB-2 Against Irradiation, by V. A. Sondak, Ye. P. Gracheva, et al, 6 pp, (pp 925-928).

JPRS 17239

On the Selective Effect of Ultrasonic Waves on the Molecular Structure of Insulin, by I. Ye. El'piner, L. I. Stekol'nikov, 6 pp, (pp 929-932).

Vol CXLVI, No 5, 1962, pp 1193-1196.
Determination of the Spectral Sensitivity of Retian Receivers in Experiments With Dichromates, 9 pp.

JPRS 17054

Scientific
Physics (Contd)

Temperature Field and Gradients in Elements of
Welded Disk Type Turbine Rotor Under Starting
Conditions, by V. I. Fedorov, M. O. Minyaylenko,
8 pp.

RUSSIAN, per, Dopovidi, Ak Nauk Ukrain RSR, No 10,
1961, pp 1317-1322. 9667362

FTD-TT-62-1363

Effects of an Electric Field on Sorption Processes
on the Surface of Germanium, by Serba Lyashenko,
et al.

RUSSIAN, per, Dopovidi Ak Nauk Ukrain RSR, No 3,
1962, pp 350-352.

*ACSI I-7071
ID 2216554

A Method for Cultivating Insect Tissues, by V. D.
Myloserdova, 7 pp.

RUSSIAN, per, Dopovidi Ak Nauk Ukrain
RSR, No 4, 1962, pp 540-542.

JPRS 16665

Additives to Fuels -- Effective Means of Increasing
Motor Resources of Power Plants, by P. P. Botkin.

RUSSIAN, per, Energomashinostroy, No 6, 1962,
pp 26-28.

*FTD-TT-62-1931

Some Special Measurements of Magnetic Induction, by
A. A. Braude.

RUSSIAN, per, Fizika Metallov i Metallovedeniye,
Vol XIII, No 6, 1962, pp 832-841.

*FTD-TT-63-1

Polarizing Light Filters in Marine Aerial Photo-
graphy, by A. M. Kuzina.

RUSSIAN, per, Geodez i Aerofotos, No 6, 1960,
pp 83-95.

ERDL, Ft Belvoir
T-1501

On the Evaporation of a Solid Body by Absorbing
Radiation Energy, by E. M. Shakhov.

RUSSIAN, per, Inzhenerny Zhurnal, Vol I, No 4,
1961, pp 27-38.

*FTD-TT-63-77

Selected Articles From the Russian Periodical
Inzhenerno-Fiz Zhur.

Vol V, No 4, 1962.

An Experimental Investigation of the Cessation of
Film Boiling of a Liquid on a Submerged Heating
Surface, by V. G. Morozov, 6 pp, (pp 15-19). 9201258

AEC-Tr-5517

The Relationships in Film Flow on a Vertical
Cylindrical Tube, by B. S. Kasimov, F. F. Zigmund,
6 pp, (pp 71-74). 9201259

AEC-Tr-5519

Scientific
Physics (Contd)

Selected Articles From the Russian Periodical
Inzhenerno-Fiz Zhur. (Contd)

- Vol V, No 5, 1962, pp 15-20. *FTD-TT-63-18
Experimental Research of the Hydrodynamics of
a Turbulent Flow of Air in the Gap Between Rotating
Coaxial Cylinders by S. I. Kosterin, Yu. A.
Koshmarov,
- Vol V, No 9, 1962. *FTD-TT-63-85
Calculation of Thermodynamic Properties of Real
Gases at High Temperatures, by A. G. Tabachenko,
(pp 25-32).
- Outflow of a Gas From a Laval Nozzle Into a Liquid,
by M. G. Moiseyev, (pp 81-84). *FTD-TT-63-85
- Acceleration of Charged Particles by Light, by
A. Midler.
RUSSIAN, np, Izvestiya, 24 Oct 1962, p 5. *FTD-TT-63-20
- Equations for the Super Density States. I
Asymptotic Equation of State, by G. S. Saakyan.
RUSSIAN, per, Izvestiya Ak Nauk Armianskoi SSR.
Ser Fiziko-Matematicheskikh Nauk, Vol XIV, No 6,
1961, pp 117-123. *AEC
- Method of Obtaining a Complex Algorithm by Com-
bining Simple Algorithms, by V. G. Lazarev, Ye. I.
Piy1', 11 pp.
RUSSIAN, per, Iz Ak Nauk SSR, Otdel Tekh Nauk,
Energet i Avtomat, No 3, 1962, pp 189-195. JPRS 17001
- Approximate Solution to a Nonlinear Differential
Equation of the Third Order With the N. N.
Bogolyubov Asymptotic Method, by A. D. Maksimov.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Energet i Avtomat, No 5, 1962, pp 196-200. NASA TT F-133
- The Determination of the Base Pressure and Temperatures
When Sonic or Supersonic Flow Undergoes a Sudden
Expansion, by R. K. Tagirov.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 5, 1961, pp 30-37. *FTD-TT-63-91
- On Recombination of Phosphorescence, by V. V.
Antonov-Romanovskiy, 16 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol X,
1946, pp 477-487. 9201244 AEC UCRL
Tr 852(L)

Scientific
Physics (Contd)

On the Flash Mechanism of SrS-Phosphors, Activated by Rare-Earth Activators, and the Interaction of the Activators, by V. V. Antonov-Romanovskiy, V. L. Levshin, Z. L. Morgenshtern, et al, 20 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XIII, 1949, pp 75-90. 9201243

AEC UCRL
Tr 853(L)

Emission Stimulating Action of the Exciting Light in Phosphors, by V. V. Antonov-Romanovskiy, 14 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XIII, 1949, pp 91-100. 9201236

AEC UCRL
Tr 854(L)

Theory of Planigons, by B. N. Delone. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Matemat, Vol XXIII, 1959, pp 365-386.

*AFCRL Res
Lib

The Dependence of Magnetostriction and the Coefficient of Linear Expansion of Elinvar Alloy on Temperature, by A. Ye. Vlasov, B. A. Ayurzanayn. RUSSIAN, per, Iz Ak Nauk SSSR, Sibirskoye Otdel, No 6, 1962, pp 99-102.

*FTD-TT-63-7

On Brightness Distribution Over the Lunar Disk, by V. A. Yezerzkaya, V. I. Yezerzkiy. RUSSIAN, per, Iz Komissii Po Fizike Planet, No 3, 1961, pp 68-73.

*FTD-TT-62-1928

On the Distribution of Ions in the Plasma of an Arc Discharge, by M. N. Turko, 14 pp. RUSSIAN, per, Iz Sibirskogo Otdeleniya Ak Nauk SSSR, No 6, 1961, pp 14-22. 9667360

FTD-TT-62-1225

Nonlinear Effects in a Magnetoactive Plasma, by V. V. Zheleznyakov, 9 pp. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Vol I, No 5/6, 1958, pp 29-33. 9667367

FTD-TT-61-277

Thin Profile Ring With Minimum Mean Coefficient of Heat Transfer for a Given Lift, by E. V. Bulygina, et al. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Aviat Tekh, No 2, 1961, pp 17-25.

RAND RM-3410-
PR

the Effect of Ambient Atmosphere on the Emission of an Arc Discharge, by O. P. Semenova, M. V. Petrova. RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 1, 1962, pp 111-117.

*FTD-TT-63-19

Scientific
Physics (Contd)

On the Calculation of the Ionizing Intensity of the Electrical Field of a Laminated Dielectric Made of Impregnated Capacitor Paper, by D. S. Varshavskiy, 9 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Fiz, No 6, 1961, pp 22-26. 9667381

FTD-TT-62-1263

Method of Optical Compensation of Linear Displacement in Panoramic Photography, by I. I. Yukhin, 15 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Geodesiya i Aerofo's'yemka, No 3, 1961, pp 127-138.

JPRS 16853

Mechanochemical Dispersion of Quartz, by G. S. Khodakov.
RUSSIAN, per, Kolloidnyy Zhur, Vol XXIV, No 2, Mar/Apr 1962, pp 236-237.

*519th MI Bn
I-8065
ID 2216545

Formal Analysis of the Theory of Two-Stage Excitation of Phosphorescence and Photoconductance, by N. A. Tolstoy, A. V. Shatilov.
RUSSIAN, per, Optika i Spektroskopiya, Vol I, No 2, 1956, pp 216-229.

*ACSI I-8143
ID 2216561

Luminescence Analysis, by A. A. Shishlovskiy, 46 pp.
RUSSIAN, per, Prik Fiz Optika, 1961, pp 527-584.

ACSI I-5081
ID 2216519

Development of Radioastronomy Research in the Radioastronomy Laboratory of the Physics Institute, Academy of Sciences USSR, by V. V. Vitkevich, 12 pp.
RUSSIAN, per, Radioastronomiya -- Trudy Fizicheskogo Instituta imeni Lebedeva, Vol XVII, 1962, pp 3-12.

JPRS 16786

Radiotelescope With 22- Meter Reflector, by P. D. Kalachev, A. Ye. Salomonovich, 36 pp.
RUSSIAN, per, Radioastronomiya -- Trudy Fizicheskogo Instituta imeni Lebedeva, Vol XVII, 1962, pp 13-41.

JPRS 16786

Accuracy of Geodetic Topographic Work in the Methods of Field Establishment and Frequency Sounding, by A. P. Pryakhin, 14 pp.
RUSSIAN, per, Razvedochnaya i Promyshlennaya Geofizika, No 43, 1962, pp 72-79.

JPRS 17175

Several New Approaches to Calculating Methods and Treatment of Observations, by L. V. Kantorovich, 11 pp.
RUSSIAN, per, Sibirskiy Matematicheskiy Zhurnal, Vol III, No 5, 15 Nov 1962, pp 701-709.

JPRS 16783

On the Quality of Light Meters Type U-16, by V. S. Khuzanov, A. M. Fomina.
RUSSIAN, per, Svetotekhnika, No 11, 1961, pp 18, 19.

ERDL, Ft Belvoir
T-1659

Scientific
Physics (Contd)

Restoration of Quenching and Synchronizing Pulses in the Vidio Signal After Magnetic Recording, by N. G. Deryugin, G. V. Voronetskiy, 9 pp.
RUSSIAN, per, Tekhnika Kino i Televideniya, No 10, 1961, pp 38-41. 9667368

FTD-TT-62-1342

Heat Transfer of Compact Checkerboard Bundles Subjected to a Transverse Flow, by V. I. Tolubinskiy, V. M. Legkiy, 11 pp.
RUSSIAN, per, Teploenergetika, No 3, 1961, pp 53-56. 9667328

FTD-TT-61-106

Heat Transfer to Sodium in the Region of Small Peclet Numbers, by M. S. Pirogov, 8 pp.
RUSSIAN, per, Teploenergetika, No 3, 1961, pp 62-64. 9667328

FTD-TT-61-106

Extrapolating Properties of the System of Two Resonators Operating in Parallel, by Yu. I. Medvedev.
RUSSIAN, per, Trudy Gor'kovskogo Politekh Inst, Vol XVI, No 2, 1960, pp 82-96.

*FTD-TT-63-4

The Structure and Certain Properties of Gas-Flame Coatings, by K. S. Shlyakova, 9 pp.
RUSSIAN, per, Trudy Instituta Met imeni A. A. Baykova -- Met, Metallovedeniye, Fiziko-Khimicheskiye Metody Issledovaniya, No 10, 1962, pp 194-201.

JPRS 16788

The Pendulum Stability During Periodic Oscillations of Its Suspension Point, by S. S. Arutyunov.
RUSSIAN, per, Trudy Kazanskiy Aviatsionnyy Institut, imeni P. I. Baranova, No 58, 1960, pp 3-21.

*FTD-TT-62-1932

Frequency Steering of the Beam in Antenna Arrays, by B. A. Yegorychev, 11 pp.
RUSSIAN, per, Trudy Moskovskogo Fiziko-Tekhnicheskogo Instituta, No 8, 1962, pp 67-72.

JPRS 17225

In Experimental Study of the Turbulent Boundary Layer During Motion of Gas in Axially-Semitracally Diffuses With Cooled Walls, by P. N. Romanenko, A. I. Leont'yev.
RUSSIAN, per, Trudy Moskov Inst Inzh Zheleznovorozhnyy Transport, No 139, 1961, pp 134-158.

*FTD-TT-63-74

Power Losses in Ion Beam Extractions, by V. S. Belosel'skiy.
RUSSIAN, per, Trudy Voronezhskogo U, No 55, 1961, pp 73-78.

*FTD-TT-63-73

Scientific
Physics (Contd)

Optics of Millimeter Waves and Radioastronomy, by
A. Ye. Salomonovich, 14 pp.
RUSSIAN, per, Uspekhi Fizicheskikh Nauk, Vol
LXXVII, No 4, 1962, pp 589-596.

JPRS 16686

The Leading-Edge Temperature of a Flat Plate
Subjected to Aerodynamic Heating, by V. B. Poruchikov,
6 pp.
RUSSIAN, per, Vest Moskova U Ser I, Matemat Mekh,
No 1, 1962, pp 47-52. 9667334

FTD-TT-62-1320

Flow of Rarefied Gas Through a Diffuser, by I. P.
Otmakhova.
RUSSIAN, per, Vest Moskova U, Ser Matemat Mekhaniki,
Astronomii, Fiziki, Khimii, Vol XIV, No 6, 1959,
pp 51-57.

*FTD-TT-63-122

Plasma Ellipsoid in Its Own Force Field, by A. Ya.
Voronov, 12 pp.
RUSSIAN, per, Vest Moskova U, Fiz Astron, Ser III,
No 5, 1960, pp 74-80. 9667395

FTD-TT-61-67

The Theory of a Magnetogasdynamic Generator, by
M. I. Kiselev, 9 pp.
RUSSIAN, per, Vest Moskova U, Fiz, Astron Ser III,
No 1, 1962, pp 63-68. 9667374

FTD-TT-62-1181

Calculation of a Tri-Phase Heater With Angular
Electrodes, by T. A. Glazenko, 11 pp.
RUSSIAN, per, Zapiski Leningrad Sel's Kiklozyaystuenogo
Instituts, Vol XII, 1956, pp 199-206. 9667344

FTD-TT-62-1345

Study of Alkaline-Earth Phosphors Which Have High
Sensitivity to Infra-Red Rays, by V. L. Levshin,
V. V. Antonov-Romanovskiy, Z. L. Morgenshtern, et al,
20 pp.
RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XVII, 1947,
pp 949-963. 9201237

AEC UCRL
Tr 856(L)

The Radiation Oxidation of Nitrogen. IV. Temperature
Dependence and the Part Played on Ions in the Reaction
Under the Action of Fast Electrons, by M. T.
Dmitriev, S. Ya. Pshezhetskiy.
RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 2, 1959,
pp 463-470.

*AEC

Scientific
Physics (Contd)

Synthesis of Organosilicon Monomers With Nitrile Groups, by A. D. Petrov, Ye. P. Zakharov, et al., 8 pp.
RUSSIAN, per, Zhur Prik Khim, No 2, 1962, pp 385-389.
9667326

FTD-TT-62-1260

Heat Transfer From a Gas-Liquid System to the Walls of the Heat Exchange Element, With Bubbling Taking Place, by V. N. Sokolov, et al.
RUSSIAN, per, Zhur Prik Khim, No 5, 1962, pp 1022-1026.

*AEC

Selected Articles From the Russian Periodical Zhur Prik Mekh i Tekh Fiz.

No 4, 1960, pp 43-48.
Turbulent Friction on a Flat Plate in the Supersonic Flow of a Gas, by S. S. Kutateladze.

RAND RM-2968-PR

No 6, 1961, pp 17-23. 9679275
On Plasma Acceleration in Crossed Electrical and Magnetic Fields, by V. M. Sarychev, 16 pp.

FTD-TT-62-191

No 1, 1962.
Particular Solutions of the Hydrodynamic Equations of a Diluted Plasma in Axisymmetric Motion, by V. P. Korobeynikov.

*FTD-TT-62-1695

The Turbulent Boundary Layer of a Gas on a Permeable Wall, by S. S. Kutateladze, A. I. Leontev, 18 pp, (pp 51-60). 9667382

FTD-TT-62-1315

Nonequilibrium Flow of Air in Nozzles, by S. I. Anisimov, G. S. Romanov, 10 pp, (pp 76-81).
9667377

FTD-TT-62-1278

Magnetohydrodynamic Problems of Steady Convection in Vertical Channels, by S. A. Regirer, (p 153-).

*FTD-TT-63-1695

No 4, Jul-Aug 1962.
Thermal-Diffusional Stability of Flames (USSR), by G. I. Barenblatt, Ya. B. Zel'dovich, et al, (pp 21-26).

*FTD-TT-63-87

Study of Spinning Detonation by Pressure Sensors, by M. Ye. Topchiyan, (pp 94-99).

*FTD-TT-63-87

Scientific
Physics (Contd)

Selected Articles From the Russian Periodical Zhur
Prik Mekh i Tekh Fiz. (Contd)

- No 4, Jul-Aug 1962. (Contd) *FTD-TT-63-87
Turbulent Boundary Layer on a Flat Plate, by
G. L. Grodzovskiy, (pp 117-119).
- No 5, 1962, pp 83-88. *FTD-TT-63-112
Transitional Processes During Powder Burning, by
B. V. Novozhilov.
- Limits of Stable Existence of Positive Gas Discharge
Column, by I. A. Poletayev, 13 pp.
RUSSIAN, per, Zhur Tekhnicheskoi Fiz, Vol XXI, No 9,
1951, pp 1021-1028. 9667412 FTD-TT-62-1238
- Concerning One Case of Dependence of Delay on Func-
tion Being Sought, by S. B. Norkin, 13 pp.
RUSSIAN, per, Zhur Vychislitel'noy Matematiki i
Matematicheskoy Fiz, Vol II, No 2, Mar-Apr 1962,
pp 343-348. 9667396 FTD-TT-62-1287
- Measurements of Interplanar Spacings With Radiations
of Different Wave-Lengths, by Martin Cernohorsky,
7 pp.
CZECH, rpt, Proceedings of the Brno Section of the
Czechoslovak Academy of Sciences, No 2, Paper 385,
Vol XXXI, 1959, pp 148-156. 9201274 AEC-Tr-5495
- Paper Chromatography of Organic Substances After
Conversion to Derivatives, by Jiri Gasparic, 5 pp.
CZECH, per, Chemicke Listy, Vol LV, 1961,
pp 1439-1443. 9201275 AEC-Tr-5494
- New Stereophotogrammetric Processing Apparatus in
the CSSR, by Miroslav Roule. *519th MI Bn
I-8066
CZECH, per, Geodeticky Obzor, No 9, 1962, pp 175-176. ID 2216546
- Interference Microscope for the Study of
Crystallization, by K. Cermak, 9 pp.
CZECH, per, Jemna a Mechanika a Optika, No 7,
1962, pp 203-206. ACSI I-7008
ID 2216530
- Preparation of Glass Fabrics for Glass Laminates,
by Ludvik Sury, 16 pp.
CZECH, per, Sklar a Keramik, Vol XI, 1961, pp 188-190.
9201261 AEC-Tr-5516
- Magnetic Sheets. Contribution to the Development
of Methods of Measurement of Magnetic Properties.
FRENCH, rpt, Ateliers de Constructions Electriques
de Charleroi. Report LR 62104/120/1 & 2, Mar 1962. BISI 2913

Scientific
Physics (Contd)

Compatibility of Structural Steels and Carbon Dioxide Under Pressure and at Average Temperatures, by R. Darras, D. Leclercq, H. Loriers, 21 pp. FRENCH, rpt, Centre d'Etudes Nucleaires, Saclay, France.

AEC-Tr-5303

Theory of the Cylindrical Converging Detonation Wave, by J. Berger, J. Favier, 13 pp. FRENCH, rpt, Colloques Internationaux du Centre National de la Recherche Scientifique Les Ondes de Detonation Gif s/Yvette, 28 Aug-2 Sept 1961, 1962, pp 137-145. 9201279

AEC-Tr-5475

Use of 400-KG Coke Ovens for Studying High-Temperature Carbonization, by Pierre Foch. FRENCH, rpt, Technique de l'Industrie du Gaz en France, Jun 1957.

Dept of Interior
TN7 ES7 No 595

Basic Solutions to the Vectorial Equation of Waves in Terms of Spherical Coordinates, by Maurice Bouix, 15 pp. FRENCH, per, Annales des Telecommunications, No 5/6, 16, 1961, pp 125-132.

ACSI I-5015
ID 2211725

Atoms Inside a Perot-Fabry Interferometer, by A. Kastler, 24 pp. FRENCH, per, Applied Optics, Vol I, No 1, 1962, pp 17-24. 9667633

Emmanuel College
Res Tr Center

On the γ to Particle Discrimination in the Particle Photographic Method, by Pierre Cuer, Henri Braun, 18 pp. FRENCH, per, Comptes Rendus Academie des Sciences, Vol CCXLII, 1956, pp 486-489.

AEC UCRL-
Tr-283(L)

Device for Converting Thermic Energy Directly Into Electric Energy, by M. Siegfried Klein. FRENCH, per, Comptes Rendus Hebdomadaires des Seances de l'Academie des Science, Vol CCLI, 28 Nov-Dec 1960, pp 2492-2495.

*ACSI I-7066
ID 2216539

Prolonged Emission Explosive Lamp for Rotating Mirror Photography, by R. Vanden Berghe. FRENCH, per, Explosifs, No 2, 1961, pp 29-35.

Dept of Interior
TN7 ES7 No 569

Note on the Obtention of Two High-Speed X-Ray Photographs During the Detonation of a Single Charge, by G. Van Roy. FRENCH, per, Explosifs, No 1, 1962, pp 5-10.

Dept of Interior
TN7 ES7 No 594

Scientific
Physics (Contd)

Study of Phosphating Films With X-Rays and Electronic Diffraction, by J. J. Trillat, J. Saison, FRENCH, per, Memoires (Les) Scientifiques de la Revue de Metallurgie, Vol LVIII, Jul 1961, pp 496-502.

BISI 2787

An Ultra-Rapid Kerr Cell Stroboscope, by R. Kling, E. Vieilledent, 15 pp. FRENCH, per, La Recherche Aeronautique, No 17, 1950, pp 45-50.

CSIR Tr No 245

The Exchange Problem of a Crystal, by Lamer Hulthen, 66 pp. GERMAN, bk, Arkiv for Matematik, Astronomii och Fysik, Vol XXVI, No 3, 1938, pp 1-106.

ACSI I-1234
ID 2196099

Handbook of Metal Physics. Volume II. The Heterogeneous Equilibrium, by Rudolf Vogel, 33 pp. GERMAN, bk, Handbuch der Metallphysik. Die Heterogenen Gleichgewichte, Chapter 4, Pt I, pp 314-337.

AEC-Tr-5248

Some Thoughts on the Theory of Cooperative Games, by Gerol Jentzsch. GERMAN, bk, Institut fur Angewandte Wirtschaftsforschung, 1959, 54 pp.

RAND RN-3398-PR

Methods and Uses of Mass Spectroscopy, by Heinz Ewald, Heinrich Hintenberger, 383 pp. GERMAN, bk, Methoden und Anwendungen der Massenspektroskopie, 1953. 9200979

AEC-Tr-5080

Stereoscopic Exploitation of Super Wide-Angle Aerial Photos, by A. Buchhoitz. GERMAN, brochure, Photogrammetria, Vol XVIII, No 1, 1961-1962, pp 15-33.

ERDL, Ft Belvoir
T-1629

The Dynamic Magnetic Properties of Ferrites, by F. Voigt. GERMAN, per, Abhandlungen der Deutschen Academie der Wissenschaften, No 3, 1961, pp 42-45.

*FTD-TT-63-6

Measurement of the Remagnetization Time of Ferrites With Rectangular Hysteresis Loop, by G. Vogler. GERMAN, per, Abhandlungen der Deutschen Academie der Wissenschaften, No 3, 1961, pp 46-48.

*FTD-TT-63-6

Description of an Electronic Ultrasonic Image Converter, by W. Freitag, H. J. Martin, 7 pp. GERMAN, per, Acustica, Vol VIII, 1958, pp 197-200.

ACSI I-8006
ID 2216543

Scientific
Physics (Contd)

- Rapid Polarographie, by Siegfried Wolf.
GERMAN, per, Angew Chem, No 72, 1960, pp 449-454. *AEC
- The Further Development of Testing of Materials and Properties, by H. Miels.
GERMAN, per, Berichte der Deutschen Keramischen Gesellschaft, Vol XX, No 12, 1939, pp 508-522. *AEC
- Scattering of Fast Electrons, by P. Urban, H. Zingl, 34 pp.
GERMAN, per, Fortschritte der Physik, Vol VII, No 12, 1959, pp 641-674. 9201278 AEC-Tr-5465
- On the Computation of the Radiation Conductivity in Glasses, by Ludwig Genzel, 9 pp.
GERMAN, per, Glastechnische Berichte, Vol XXVI, No 3, 1953, pp 69-71. Navy Tr 3289/
NRL 919
- Paramagnetic Resonance of Photo-Adduct Biradicals During the Photochemical Energy Transfer of Excited Rose Bengal From Unsaturated Compounds, by G. O. Schenck, R. Wolgast, 7 pp.
GERMAN, per, Naturwissenschaften, Vol XLVIII, No 24, 1961, pp 737, 738. 9200976 AEC-Tr-5389
- Concerning a Possible Way of Electron Bonding on Crystal Surfaces, by Ig. Tamm, 12 pp.
GERMAN, per, Physik Alische Z der Sowjetunion, Vol I, 1932, pp 733-746. 9200906 AEC SCL-T-443
- The Thermodynamics of Phase Changes in Ternary Systems by E. Rudy.
GERMAN, per, Planseeberichte für Pulvermetallurgie, Vol X, pp 32-41, 1962. *AEC
- Continuous Control and Regulation of the Moisture Content of Bulk Materials by Means of the Neutron Scattering Method, by H. Neuhaus.
GERMAN, per, Stahl und Eisen, Vol LXXXII, 19 Jul 1962, pp 1017-1026. BISI 3041
- Calibration Procedure for the Measurement of Radioactive Aerosol Concentration According to the Filter Method, by K. H. Weber, W. Wisch, 12 pp.
GERMAN, per, Staub, Vol XX, 1960, pp 393. 9201265 AEC-Tr-5531
- On the Theory of the Randles-Sevcik Cathode-Ray Polarography, by Hiroaki Matsuda, Yuzo Ayabe, 29 pp.
GERMAN, per, Z für Elektrochemie, Vol LIX, 1955, pp 494-503. 9201240 AEC-UCRL-Tr-850

Scientific
Physics (Contd)

On the Theory of Superconductivity, by Werner Heisenberg, 24 pp.
GERMAN, per, Z fuer Naturforschung, Vol IIa, 1947, pp 185-201.

AEC-Tr-5267

Interactions in a Fermi Gas -- Polarization Phenomena, Correlation Energy, and Electron Condensation, by Wilhelm Macke.

GERMAN, per, Z fuer Naturforschung, Vol Va, 1950, pp 192-208.

AEC-Tr-5269

Selected Articles From the German Periodical
Z fuer Physik.

Vol CLX, 1960, pp 149-161. 9200968
Spectrum, Zeeman Effect and Electron Levels of Trivalent Erbium in Crystalline Salts, by K. H. Hellwege, S. Hufner, N. G. Kahle, 18 pp.

AEC-Tr-5396

Vol CLXIV, No 1, 1961, pp 563-573.
On the Field Excitation Theory for Cold, Evaporating Cathodes, by A. Bauer.

ERDL, Ft Belvoir
T-1628

Vol CLXV, No 2, 1961, pp 34-46.
On the Field Excitation Theory for Cold Evaporating Cathodes, by A. Bauer.

ERDL, Ft Belvoir
T-1628

Vol CLXV, 1961, pp 99-120.
Generations of 21 New Short Lifetime Isomers by a Nuclear Photoreaction, by H. Krehbeil, V. Meyer-Berkhout.

*Navy/NRL

Instruments and Methods Used in Analytical Photogrammetry, by Jurgen Hothmer, 12 pp.
GERMAN, per, Z fur Vermessungswesen, Vol LXXXVII, No 7, 1962, pp 233-244. (Call No Ta 501 D48)

Army Map Service

Increasing the Heat Output of Gas-Cooled Reactors, by Laszlo Perneczky.
HUNGARIAN, per, Energia es Atomtehnika, No 8, 1962, pp 375-380.

*FTD-TT-63-114

Magnets Hydrodynamic Waves in Cylindrical Wave-Guide, by Szabo Janos.
HUNGARIAN, per, Magyar Fizikai Folyoirat, Vol VIII, No 4, 1960, pp 271-284.

*ACSI I-8136
ID 2216555

Scientific
Physics (Contd)

Derivation by Statistical Mechanics of the Law of Dependence of the Solids on Temperature, by Piero G. Bordoni.
ITALIAN, per, Rend. Accademia Nazionale dei Lincei, No 6, 1950, pp 597-602.

*AEC

Statistical Theory of Frequency Changes in the Normal Modes of a Solid With Temperature and Volume, by Piero G. Bordoni.
ITALIAN, per, La Ricerca Scientifica, Vol XXIII, 1953, pp 390-395.

*AEC

Selected Articles From the Japanese Report Fourth Japan Conference on Radioisotopes, Tokyo, 10-12 Oct 1961, published 1962.

*A

Some Application Examples of Radioisotopes as Radiation Sources in the Field of Civil Engineering, by A. Arilizumi, U. Kondou, (pp 174-176).

Measurement of the Dust Distributions in a Dust Catcher of a Blast Furnace, by S. Shono, S. Komaki, (pp 181-183).

Measurement of Relative Density at Filling Sand Slime Using Radioisotope, by H. Fushimi, (pp 189-192).

X-Ray Absorption Analysis Using Radioisotopes in Fuel Tests, by S. Enomoto, T. Furuta, (pp 197-201).

Non-Destructive Inspection of Iron and Procelain With Cobalt-60 and Betatron, by T. Asada, A. Takiyara, (pp 201, 202).

A Research on the Measurement of the Neutralization Phenomenon of Mortar Using Radioactive Carbon Dioxide, by M. Ariizumi, N. Konjo, (pp 246-248).

The Activation Analysis of Fast Neutron Bombardment, by K. Tada, I. Fujii, (pp 538-541).

Application of Compton Scattering to Variable Energy Monochromatic Gamma-Ray Source, by T. Kaminishi, (pp 562-565).

Radioactive Self-Luminous Compounds (2) on the Application of Radioactive Self-Luminous Compounds by Y. Ato, R. Huzimura, (pp 607-610).

Scientific
Physics (Contd)

Selected Articles From the Japanese Report
Fourth Japan Conference on Radioisotopes, Tokyo
10-12 Oct 1961, published 1962. (Contd)

Irradiation Effect of δ -Rays on Cds, by T. Asada,
M. Kawanishi, (pp 611-614).

*AEC

The Measurement of Gaseous Tritium by Proportional
Counter, by A. Ono, W. Morimitsu, (pp 713-715).

Characteristics of Fluidized Particles. VII.
Particle Energy and Temperature in a Fluidized Bed
System, 14 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol LVII, 1954,
pp 6-9. 9200964

AEC UCRL-Tr-862

Gas Concentration-Meter and Density-Meter by Applica-
tion of Radiation Absorption, by Hiroshi Imanura, 11 pp.
JAPANESE, per, Radioisotopes, Vol XI, No 1, 1962,
pp 9-16. 9201262

AEC-Tr-5457

Method of Complete Confounding of Interactions
With Sub-Blocks in Factorial Experiments With Two,
Three, Four, and Five Levels of Each Factor, by
Wiktor Oktaba, 65 pp.
POLISH, per, Annales Universitatis Mariae Curie-
Sklodowska Lublin, Vol XI, No 6, 1956, pp 124-186.

JPRS 16992

First Ionic Engine Ready for Tests.
POLISH, per, Horizonty Techniki, No 2, 1962, p 39.

*FTD-TT-63-80

Geology and Physiography, by Tulia Guiros
Amador, 34 pp.
SPANISH, per, Geografia de Costa Rica, 1954,
pp 13-15, 17, 20, 22-38. (Call No GB 139 C8
Q8)

Army Map Service

Dynamic Regimes of Step Control Systems, by
P. Y. Akinin, 10 pp.
UKRAINIAN, per, Avtomatyka, No 4, 1962,
pp 34-41.

JPRS 16837

Auto-Oscillation in a Relay External System,
by B. O. Aref'yev, 8 pp.
UKRAINIAN, per, Avtomatyka, No 4, 1962, pp 42-48.

JPRS 16837

Scientific
Physics (Contd)

Experimental Investigation of Self-Adjusting
(Extremal) Systems With a Transitory Memorizing
of the Extremum, by V. O. Mitroshyn, P. I.

Chinayev, 14 pp.

UKRAINIAN, per, Avtomatyka, No 4, 1962, pp 49-59.

JPRS 16837

To Determine the Energy of Formation of Vacancies
in Silver, by O. M. Ovcharenko.

UKRAINIAN, per, Ukrain Fiz Zhur, Vol VI, No 1, 1961,
pp 139, 140.

*FTD-TT-63-124

Effect of Infrared Light on the Luminescence of
Pure and Mixed Silver Halide Phosphori, by V. M.
Bilous, S. I. Golub, 5 pp.

UKRAINIAN, per, Ukrain Fiz Zhur, Vol VI, No 6, 1961,
pp 738-741. 9667332

FTD-TT-62-1267

Calculation and Construction of an Accelerating System
for a Linear Accelerator With Intensive Focusing, by
L. I. Bolotin, V. O. Suprunenko, et al, 7 pp.

UKRAINIAN, per, Ukrain Fiz Zhur, Vol VII, No 2,
1962, pp 132-136. 9667321

FTD-TT-62-1329

The Performance of a Two-Electrode Extraction
System With a Magnetic Proton Source, by Ye. T.
Kucherenko.

UKRAINIAN, per, Visnyk Kyyivskogo Universiteta,
Ser Fizika Ta Khimiya, No 1, 1958, pp 117-121.

*FTD-TT-63-72

Scientific
Space Research

Engine for Galactic Space Ship, by R. G. Perel'man.
RUSSIAN, bk, Dvigatel' Golokticheskikh Karobley,
Izdoan SSSR, Moscow 1962, 199 pp.

*FTD-TT-63-92

Earth-Space-Earth, 29 pp.
RUSSIAN, bk, Zemlya-Kosmos-Zemlya, No 24, 16 Aug 1962,
pp 10, 13, 14, 27, 30, 31, 45, 46, 51, 52, 56, 57,
61. 9667379

FTD-TT-62-1416

Rocket Carrying Aircraft Goes to the Firing
Range, by V. Belikov.
RUSSIAN, np, Izvestiya, No 239 (14093), 7 Oct 1962,
p 6.

*FTD-TT-63-97

Forward to a Mars.
RUSSIAN, np, Izvestiya, 5 Nov 1962, p 4.

*FTD-TT-63-94

On the Preparation of Man for Flights Into the
Cosmos, by Vladislav Loginov, Leonid Salmanov, 6 pp.
RUSSIAN, np, Kommunist, 8 Sep 1962, p 3. 9667422

FTD-TT-62-1592

Rocket Testers, by N. Gorbachev.
RUSSIAN, np, Krasnaya Zvezda, 15 Jul 1962, p 2.

*FTD-TT-63-51

On the Use of Satellite-Obtained Radiation
Measurements in Synoptic Analysis, by
V. G. Boldyrev, 11 pp.
RUSSIAN, per, Met i Gid, No 10, Oct 1962,
pp 28-34.

JPRS 16905

Weightlessness, by N. N. Gurobskiy, M. A. Gerd,
13 pp.
RUSSIAN, per, Nauka i Zhizn, No 11, 1961,
pp 86-91. 9667372

FTD-TT-62-1310

Five Days Which Shook the World, by O. G. Gzenko,
12 pp.
RUSSIAN, per, Nauka i Zhizn', No 9, 1962, pp 2-10.

JPRS 16776

Biology and Flights to Outer Space, by
N. N. Zhukov-Verezchnikov, V. Ya. Kop'yev, 10 pp.
RUSSIAN, per, Nauka i Zhizn', No 9, 1962, pp 15-20.

JPRS 16776

In the City of "The Celestial Brothers," by
Ye. Ryabchikov, 6 pp.
RUSSIAN, np, Pravda, 7 Aug 1962, p 4. 9667333

FTD-TT-62-1583

Satellites, Atmosphere, and Electrons, by
Yu. Gal'perin, T. Mulyarchik, 7 pp.
RUSSIAN, np, Pravda, 26 Sep 1962, p 6. 9667391

FTD-TT-62-1547

Scientific
Space Research (Contd)

- On Returning Artificial Satellites to Earth, by
V. Borisov.
RUSSIAN, np, Sovet Aviatsiya, 5 Apr 1958, p 4. *FTD-TT-63-55
- Interplanetary Ship Returns to Earth, by
Yu. Kushkov.
RUSSIAN, np, Sovet Rossiya, 25 Sep 1959, p 4. *FTD-TT-63-57
- The Chief Goals of the Historic Flight. Part II.
The Cosmonaut is in Control of the Craft, by
B. Senemov.
RUSSIAN, np, Sovet Rossiya, No 192(1872),
15 Aug 1962, p 2. *FTD-TT-63-24
- Course Toward Mars.
RUSSIAN, np, Sovet Rossiya, 3 Nov 1962, p 4. *FTD-TT-63-93
- Space - USSR and USA.
RUSSIAN, np, Vodnyy Transport, 4 Aug 1962, p 3. *FTD-TT-63-43
- Barrier of the Unknown, by Yu. Kibardin,
M. Gallay, 9 pp.
RUSSIAN, per, Znaniye-Sila, No 3, 1962.
9667369 FTD-TT-62-1304
- Secrets of the Blue Jet Stream, by N. Petrova,
17 pp.
RUSSIAN, per, Znaniye-Sila, No 3, 1962, pp 17-19.
9667369 FTD-TT-62-1304
- High Altitude Rockets, by Vladimir Nemco.
CZECH, per, Kridla Vlasti, No 5, 1962, pp 138, 139. *FTD-TT-63-78
- Ions and Fast Electrons Near Earth and in
Interplanetary Space, by K. I. Gringauz,
W. G. Kurt, et al.
POLISH, per, Astronautyka, No 3, 1961, pp 8-10. *FTD-TT-63-69
- Acquaintance With a Rocket, by Gzeslau Gavel,
8 pp.
POLISH, np, Zolnierz Wolnosci, No 119, No 121,
23, 25 May 1962, pp 1-5, 1-2. 9667327 FTD-TT-62-1253

Scientific
Miscellaneous

Concerning Precision Methods in Linguistic
Research, by O. S. Akhmanova.
RUSSIAN, bk, 1961, 164 pp.

RAND RM-2997-PR

Geographic Toponymic Nomenclature, by
E. M. Murzayev, V. A. Nikonov. (SF-2467)
RUSSIAN, bk, Geograficheskiye Nazvaniya,
1962, pp 1-182.

*JPRS

Engineering Cybernetics, by Aleksey Grigor'yevich,
620 pp.
RUSSIAN, bk, Tekhnicheskaya Kibernetika, Kiev,
1962, pp 1-422.

JPRS 17092

Soviet Developments in Information Storage and
Retrieval, by Rudolph Yul'yevich Bershadskiy,
53 pp.
RUSSIAN, bk, Uchenyy Kotoryy Znaet Vse, Moscow,
1962, pp 1-46.

JPRS 16848

Cybernetics Should be Used in Road Construction,
by I. V. Zashchuk, 5 pp.
RUSSIAN, per, Avtomobil'nyye Dorogi, No 3,
Mar 1962, pp 5, 6.

JPRS 16951

Role of Affiliates of the Academy of Sciences
USSR in Developing the Agriculture of the
Country, by K. P. Drachevskiy, L. A. Popov,
6 pp.
RUSSIAN, per, Byul Tekh-Ekon Informatsii,
No 7, 1962, pp 78-80.

JPRS 16777

About an Instance of Amplitude Error Dis-
cretization, by Ya. P. Dragan, V. M. Mikhaylovskiy,
6 pp.
RUSSIAN, per, Dopovidi Ak Nauk Ukrayinskoy RSR,
No 12, 1961, pp 1578-1582. 9667337

FTD-TT-62-1364

Works Submitted in Competition for the 1963
Lenin Prizes, 35 pp.
RUSSIAN, np, Izvestiya, 4 Dec 1962, pp 3, 4.

JPRS 17261

General Meeting of the Department of Chemical
Sciences of the Academy of Sciences of the
USSR, 22, 23 May 1962, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR - Otdel Khim
Nauk, No 10, 1962, pp 1896-1899.

JPRS 17270

The Five-Year Plan and Goals in the Technical
Sciences.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Energet i Avtomat, No 3, 1959, pp 5-6.

*RAND

Scientific
Miscellaneous (Contd)

On the Radical Reorganization of Activities
of the Timiryazev Agricultural Academy, 7 pp.
RUSSIAN, per, Iz Timiryazevskoy Sel'skokhozyay-
stvennoy Akademii, No 1, 1962, pp 7-10.

JPRS 16777

Scientific Degrees Awarded at Timiryazev
Agricultural Academy in 1961, 9 pp.
RUSSIAN, per, Iz Timiryazevskoy
Sel'sko-Khozyaystvennoy Akademii, No 2,
1962, pp 237-240.

JPRS 16777

Man-Machine Communications.
RUSSIAN, np, Kazakh Pravda, 16 Nov 1962,
p 4.

*FTD-TT-63-76

Cybernetics a Powerful Factor in Scientific
Technical Progress, by V. Glushkov, 10 pp.
RUSSIAN, per, Kommunist Ukrainy, No 7, 1962.

JPRS 17077

Consequences of Joint Session of Academy of
Sciences and Academy of Medical Sciences USSR,
by F. Bassin, 5 pp.
RUSSIAN, np, Medit Rabotnik, No 47(2107),
12 Jun 1962, p 2.

JPRS 16990

Criticism of the Ukrainian Scientific Research
Institute of Hydraulic Engineering and Land Improvement,
by G. Valentinov, 6 pp.
RUSSIAN, np, Pravda Ukrainy, 10 May 1962, p 3.

JPRS 16777

Cybernetic Ways for Improving Measuring Equipment,
by S. M. Mandel'shtam.
RUSSIAN, per, Priborostroyeniye, No 10, 1962,
pp 30, 31.

*FTD-TT-63-115

Cybernetics in Biology and Medicine, by
Nikolay Strokovskiy, 9 pp.
RUSSIAN, np, Kabochaya Gazeta, No 269,
17 Nov 1962, pp 2, 3.

JPRS 17145

Cybernetics, Communications Theory, and the
School, by V. A. Artemov, 14 pp.
RUSSIAN, per, Sovet Pedagogika, No 1, Jan 1961,
pp 26-36.

JPRS 17116

Problems of Cybernetics Today, by V. Pekelis,
7 pp.
RUSSIAN, per, Tekhnika-Molodszhi, No 8, 1962,
pp 27-29.

JPRS 17042

International System of Units, 7 pp.
RUSSIAN, per, Tsvetnyye Metally, No 3, 1962,
pp 88-91. 9667351

FTD-TT-62-1354

Scientific
Miscellaneous (Contd)

Computers and Automation of Production Control,
by V. M. Glushkov, 9 pp.
RUSSIAN, per, Vest Ak Nauk SSSR, No 4, 1962,
pp 86-90. 9667355

FTD-TT-62-1405

Cybernetics and Automatic Control, by
V. A. Trapeznikov, 24 pp.
RUSSIAN, per, Vest Ak Nauk SSSR, Vol XXXII,
No 5, 1962, pp 33-42.

JPRS 17227

Using Cybernetic Methods in Law, by
D. A. Kerimov, N. D. Andreyev, et al, 8 pp.
RUSSIAN, per, Vest Leningradskogo Universiteta,
Vol XVII, No 11, 1962, pp 141-144.

JPRS 17256

On the Classification of Science, by B. M. Kedrov.
RUSSIAN, per, Voprosy Filosofiy, No 2, 1955,
pp 49-68.

*RAND

Problems of Psychology Presented in Cybernetics
to the Service of Communism, by V. N. Pushkin,
D. N. Zavalishina, 9 pp.
RUSSIAN, per, Voprosy Psikhologii, No 4,
Jul-Aug 1962, pp 156-160.

JPRS 17219

A Machine Capable of Conversing, by Ye. Saparina,
28 pp.
RUSSIAN, per, Znaniye-Sila, No 10, 1962, pp 29-32.

JPRS 17184

Cybernetics in the School, by L. Landa, 16 pp.
RUSSIAN, per, Znaniya-Sila, No 10, 1962,
pp 33-35.

JPRS 17184

Results of the Scientific Activity of Academicians
and Corresponding Members of the Department of
Agricultural Sciences of the Academy of Sciences
BSSR For 1961, by P. Ya. Prakopaw, D. P. Ivanov,
15 pp.
BELORUSSIAN, per, Vestsi Ak Navuk BSSR, Soryya
Biyalahichnykh Navuk, No 2, 1962, pp 133-139.

JPRS 16777

China Academy of Sciences Confers 1956 Annual
Science Awards in the Natural Sciences, 7 pp.
CHINESE, per, Hsin-hua Pan-Yueh-k'an, No 4,
1957, pp 120, 121.

JPRS 17174

Chinese Pharmacological Society Holds Discussion
Conference on Papers Written, by Lin Ch'i-shou,
5 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 10, Oct 1956,
pp 75-76.

JPRS 17174

Scientific
Miscellaneous (Contd)

Summary of 1958 Scientific and Technical Work,
by Wang T'ai-k'uei, 33 pp.
CHINESE, per, K'uang-yeh Hsueh-yuan Hsueh-pao,
No 2, 1959, pp 10-18.

JPRS 17174

Information and Short Reports.
GERMAN, per, Radio und Fernsehen, Zeitschrift
fur Radio, Fernshen, Elektroakustik und
Elektronik, No 15, Aug 1960, p 462.

*FTD-TT-63-66

The Activities of the Hungarian Academy of
Sciences, 8 pp.
HUNGARIAN, per, Magyar Tudomány, Vol VII,
No 8, 1962, pp 515-518.

JPRS 17131

In the World of Cybernetics, by V. Ilushkov,
7 pp.
UKRAINIAN, per, Nauka i Zhytta, No 5, 1962,
pp 17, 18.

JPRS 16894

INFORMATION RECEIVED DURING JANUARY

ON COVER-TO-COVER TRANSLATIONS

Acta Biochimica Polonica, Vol IX, No 3, 1962 9068483	OTS 62-11051-3 PL-480
Acta Mathematica Sinica, Vol X, Nos 1-3, 1960.	Amer Math Soc
Acta Mathematica Sinica, Vol XI, Nos 1-3 1961.	Amer Math Soc
Atomnaya Energiya, Vol XII, No 4, 1962.	CB
Avtomatika i Telemekhanika, Vol XXIII, No 6, 1962.	ISA
*Byul Izobreteniy, No 13/14, 1962.	Derwent Information Service
Doklady Akademii Nauk SSSR, (Physical Chemistry Section), Vol CXLII, Nos 1-6, Jan/Feb 1962.	CB
Doklady Akademii Nauk SSSR, (Soviet Physics Section), Vol CXLV, Nos 1-3, 1962.	Amer Inst Phys Sov Phys - Dok Vol VII, No 7
Elektrosvyaz', No 6, 1962.	AIEE
Geologiya Nefti i Gaza, Vol IV, No 6-B, 1960.	RRG
Geomagnetism i Aeronomiy, Vol I, No 1, 1961.	AGU
Izmeritel'naya Tekhnika, No 6, 1962.	ISA
Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol XXV, No 12, 1961.	CTT
Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol XXVI, No 1, 1962.	CTT
Izvestiya Akademii Nauk SSSR: Seriya Geofizicheskaya No 9, 1962.	AGU
Izvestiya Vysshikh Uchebnykh Zavedeniy, Priborostroyeniye No 1, 1962 NY-7430 No 2, 1962 NY-7431 No 3, 1962 NY-7432 No 4, 1962 NY-7433 No 5, 1962 NY-7434	*JPRS
Izvestiya Vysshikh Uchebnykh Zavedeniy, Tekhnologiya Tekstil'naya Promyshlennosti, No 2, 1961.	Tex Inst

Kauchuk i Rezina, Vol XXI, No 2, 1962.	RAPRA
Kinetika i Kataliz, Vol III, No 2, 1962.	CB
Nukleonika, Vol IV, 1959.	
No 4, 9068486	AEC-Tr-4153
No 5, 9068477	AEC-Tr-4154
No 6, 9068485	AEC-Tr-4155
Nukleonika, Vol V, Nos 1-12, 1960.	AEC-Tr-4156-4166
Optika i Spektroskopiya, Vol XI, No 1-3, 5, 6, 1961.	OSA
Optika i Spektroskopiya, Vol XIII, No 3, 1962.	CSA
Radiobiologiya, Vol II, No 6, 1962.	*AEC
Radiotekhnika i Elektronika, No 5, 1962.	AIEE
Sopostenja, Vol IX, No 22, 1962. 9201374	OTS 62-19470/1 PL-480
Stal, No 9, 1962.	BISI
Uspekhi Khimii, No 3, 1962.	CS
Uspekhi Matematicheskikh Nauk, Vol XVII, No 2, 1962.	Cleaver-Hume Press
Voyennyy Vestnik, No 9, 1962.	ACSI I-0424-I ID 2191530
Zhurnal Analiticheskoy Khimii, Vol XVII, No 2, 1962.	CB
Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol XLIII, No 1, 1962.	Amer Inst of Phys Sov Phys - JETP Vol XVI, No 1
Zhurnal Neorganicheskoy Khimii, No 4, 1962.	CS

*Table of Contents not available.

Table of Contents follows for the above cover-to-cover translations.

CONTENTS

Zofia Kuratowska, E. Kowalski, B. Lipiński and Elgia Michalak, Preparation of the erythropoietic factor from human blood plasma	189
W. Gałasiński, Nina Wołosowicz and W. Tysarowski, Purification and properties of catalase from <i>Mycobacterium smegmatis</i>	199
Z. Szafran, Halina Szafran and J. Oleksy, Studies on hydrolases of digestive juices. VII. Proteolytic activity of canine intestinal juice	205
J. Gruda, Irena Kąkol and W. Niemierko, Direct transfer of orthophosphate from adenosine triphosphate to myosin and H-meromyosin	215
R. Pakula, W. Walczak and D. Shugar, Oxygen and dose-rate effects on survival curves of γ -irradiated transforming DNA in the presence of protective substances	227
Halina Szemplińska, Halina Sierakowska and D. Shugar, Histochemical localization of hyaluronidase and amylase by the film-substrate technique	239
Maria Gumińska, Studies on the Crabtree effect. II. Factors inhibiting and enhancing the Crabtree effect in human neoplastic HeLa cells	245
J. Skupin, A comparison of chemically and enzymically prepared Se-adenosylselenomethionine	253
M. Wiewiórowski and J. Augustyniak, Studies on lupin proteins. V. C-Terminal amino acids in conglutin β	261
Celina Janion and D. Shugar, Influence of γ -irradiation on liver regeneration in normal and starved rats	271
Zofia Trauer and D. Shugar, Deuteron and γ -irradiation of dried preparations of lysozyme and ribonuclease	281
W. Rzeźnycki, Alicja Grudzińska and M. Hillar, The cathodic proteins in hog kidney mitochondria	295

Available From OTS 62-11051-3
PL-480

	Page
Lee Shen-ling * <i>Topological structure of integral curves of the differential equation</i> $y' = \frac{a_0 x^n + a_1 x^{n-1} y + \dots + a_n y^n}{b_0 x^n + b_1 x^{n-1} y + \dots + b_n y^n} \dots\dots\dots$	1
Wu Cheng-der <i>On the modulo 2 imbedding class of triangulable compact manifolds.</i>	23
Chen Kien-kwong <i>Summability of a series of orthogonal polynomials.</i>	34
Li Sjun-czin <i>Cesàro summability in Banach space.</i>	40
Ying Mei-chie <i>Automorphisms of the projective unimodular group.</i>	53
Hu Shih-hua <i>Recursive algorithms. Theory of recursive algorithms I**</i>	64
Hu Shih-hua and Loh Chung-wan <i>Kernel functions. Theory of recursive algorithms . **</i>	97
Hu Shih-hua <i>Normal forms of recursive functions. Theory of recursive algorithms III**</i>	111
Wang Lian <i>On the equivalence problem of differential equations and difference-differential equations in the theory of stability of the first critical case.</i>	118
Chin Yuan-shun <i>Unconditional stability of systems with time-lags.</i>	138

* When an author's name appears in this table of contents in the form Lee Shen-ling it is to be understood that the family name appears first. In bibliographies and elsewhere the same person may also be referred to as S. L. Lee.

** The text presented here is a facsimile of the translation from the Chinese appearing in the journal Scientia Sinica, published in Peking.

Available From American Mathematical Society

TABLE OF CONTENTS

	Page
G. Gun <i>Limits for the characteristic roots of a matrix. III</i>	157
Hsü Sung-ch'ing* <i>Conditions for the stability of a certain class of systems of differential equations in a critical case.</i>	164
Wang Yuan <i>On the representation of large integer as a sum of a prime and an almost prime. Conditional results.</i>	181
Shyu Kwang-huei <i>On the queueing processes in the system $GI M n$ with bulk service.</i>	196
Wu Fang <i>Some results about the queueing system $GI/E_k/1$.</i>	205
Chang Hsüeh-ming <i>On the stability of systems of differential equations with time lag.</i>	217
Shieh Hui-chun <i>On functions holomorphic in the unit circle with two exceptional values B.</i>	226
Huan Ci-jui, Fan Cu-pau and Cen' Sin'-cen <i>On differential equations with algebraic limit cycles.</i>	235
Kung Sun <i>Fourier analysis on the unitary group. I. Abel summability and the Dirichlet kernel of a Fourier series.</i>	249

* When an author's name appears in this table of contents in the form Hsü Sung-ch'ing it is to be understood that the family name appears first. In bibliographies and elsewhere the same person may also be referred to as S. C. Hsü.

Available From American Mathematical Society

TABLE OF CONTENTS

	Page
Kwan Mei-ko <i>Graphic programming using odd or even points.</i>	273
———, <i>Improvement on graphic programming.</i>	278
Ding Shia-kuai, Wang Kan-ting, Ma Ju-nien, Shun Chia-lo and Chang Tong <i>Definition of ellipticity of a system of second order partial differential equations with constant coefficients.</i>	288
Sun Ho-sheng <i>Some problems in partial differential equations arising from geometry.</i>	300
Ding Shia-shi <i>Some properties of a class of functional spaces and their applications.</i>	328
Lin Chün <i>On approximate methods of solution for a certain type of nonlinear differential equations.</i>	374
Hsu Man-ying, Li Ai-tsing, Ma Shi-chao and Shih Chung-pao <i>A singular Cauchy problem for a second order partial differential equation.</i>	380
Index for the year 1960.....	following 392

Available From American Mathematical Society

TABLE OF CONTENTS
(Vol. 2, No. 1, 1962 — Chinese original Vol. 11, No. 1, 1961)

	Page
Shih Tsung-pao* and Wang Kuang-yin <i>Two-layer baroclinic modeling.</i>	1
K. H. Look and Hsu I-chau <i>A note on transitive domains.</i>	11
Sophomore and Junior Planning Study Group <i>Application of finite two-person zero sum game problems to the planning of vegetable cultivation.</i>	27
Hua Lo-keng and Wang Yuan <i>On the problem of calculating mineral reserves and hill area on contour line maps.</i>	33
Su Buchin <i>Contributions to the theory of conjugate nets in projective hyperspace (II)**.</i>	46
Wu Wen-tsün <i>On non-cooperative games with restricted domains of activities**.</i>	54
Hua Lo-keng and others <i>Application of mathematical methods to wheat harvesting.</i>	77
Huang Hung-chia <i>Some differential equation problems in electronics.</i>	92
Shu Sung-kuei and Fan Ming-shih <i>Theoretical analysis of direct current synchronizing systems.</i>	104

* When an author's name appears in this table of contents in the form Shih Tsung-pao it is to be understood that the family name appears first. In bibliographies and elsewhere the same person may also be referred to as T. P. Shih.

** The text presented here is a facsimile of the translation from the Chinese appearing in the journal *Scientia Sinica*, published in Peking.

Available From American Mathematical Society

TABLE OF CONTENTS
(Vol. 2, No. 2, 1962 - Chinese original Vol. 11, No. 2, 1961)

	Page
Clas 56, Thin shell group <i>Analysis of hyperbolic paraboloidal shells including bending moments.</i>	123
Shen Sing-yao* <i>On natural systems of A_n^2-polyhedra**.</i>	139
Cheng Ts'eng-t'ung <i>Weak convergence of measures and strong Markov processes.</i>	148
———, <i>Stochastic measures and stochastic integrals.</i>	155
Chang Yung-shu, Li Kun-yuan and Wang Mu-chiu <i>On the stability of motion in a finite time.</i>	163
Lin Chun <i>A discussion of some questions regarding difference methods for systems of nonlinear differential equations.</i>	173
Hou Cheng-ting <i>A proof of an assertion of Palm in the queuing theory.</i>	188
Shu Sung-kuei <i>Stability and nonlinear oscillation problems in multi-stage electrical shaft systems.</i>	192
Chou Yu-lin <i>Nonlinear partial differential equations.</i>	204

* When an author's name appears in this table of contents in the form Shen Sing-yao it is to be understood that the family name appears first. In bibliographies and elsewhere the same person may also be referred to as S. Y. Shen.

** The text presented here is a facsimile of the translation from the Chinese appearing in the Journal Scientia Sinica, published in Peking.

Available From American Mathematical Society

TABLE OF CONTENTS
(Vol. 2, No. 3, 1962 - Chinese original Vol. 11, No. 3, 1961)

	Page
Hsia Tao-hsing * <i>Conditionally positive definite distributions with a finite number of negative squares.</i>	217
Chou Yu-lin <i>Boundary problems for nonlinear parabolic equations on regions with curvilinear boundary.</i>	229
Cheng Shao-lien, Tao Tsung-ying and others <i>The estimation of regression coefficients of time series with multidimensional stationary random disturbances.</i>	248
Huang Hung-chia <i>The method of slowly varying coefficients.</i>	267
Chang Li-chien <i>The maximum and minimum probabilities of cyclic stochastic inequalities.</i>	279
Hsia Chi-sheng, Chang Chao-chih, Ma Hsi-wen, Hsieh Chung-chieh and Wang Yu-chih <i>Asymptotic solution of the optimal quantization problem.</i>	284
Hu Kuo-ting <i>Three kinds of converses to Shannon's theorem in information theory.</i>	293

* When an author's name appears in this table of contents in the form Hsia Tao-hsing it is to be understood that the family name appears first. In bibliographies and elsewhere the same person may also be referred to as T. H. Hsia.
Available From American Mathematical Society

THE SOVIET JOURNAL OF ATOMIC ENERGY

A translation of *ATOMNAYA ÉNERGIYA*,
a publication of the Academy of Sciences of the USSR

(Russian Original dated April, 1962)

Volume 12, No. 4

September, 1962

CONTENTS

	PAGE	RUSS. PAGE
Award of the I. V. Kurchatov Gold Medal and Prize.....	293	277
The Half-Life of the Neutron. Yu. A. Prokof'ev and P. E. Spivak	294	278
The Neutron Spectrum in a Mixture of Two Noninteracting Gases Heated to Different Temperatures. O. B. Moskalov	295	279
Calculation and Stimulation of Optimum Reactors with Equalized Cores (Age Approximation). L. A. Vulis, A. A. Kostitsa, and V. D. Kubyshkina.....	300	283
Replacement of a Lattice Lump Near the Reflector. L. Trlifaj	309	292
The Use of Monodirectional Neutron Sources for the Investigation of Shielding (B-2 Apparatus in a BR-5 Reactor). S. G. Tsylin	318	300
The Use of Empirical Constants in Shielding Design. B. I. Sinitsyn and S. G. Tsylin	324	306
A Rapid Method for Estimating the Radiation Hazard Associated with the Presence of Radon Daughter Products in Air. K. P. Markov, N. V. Ryabov, and K. N. Stas'.	333	315
LETTERS TO THE EDITOR		
Determination of the β -Decay Constant of K^{40} . D. G. Fleishman and V. V. Glazunov	338	320
Method of Preparing Polonium α -Radiators of Low Activity. I. N. Plaksin, Yu. S. Deev, and L. P. Starchik	341	322
Spectrum of Slow Neutrons from the Horizontal Channel of the VVR-M Reactor. V. P. Vertebnyi, M. F. Vlasov, V. V. Koloty, and A. N. Maistrenko, and M. V. Pasechnik	343	324
Efficiency of the Rod System in a Reflected Reactor with Allowance for Epithermal Absorption. V. I. Nosov	345	326
Effective Boundary Condition on the Surface of a Plane Periodic Lattice. V. V. Khromov	349	329
Some of the Results Obtained in Measuring the Diffusion Parameters of Organic Liquids by Using the Pulse Method. L. N. Yurova, S. B. Stepanov, V. V. Okorokov, and E. I. Kudryashov	352	331
Gas and Gravimetric Methods of Analysis of Sodium for the Oxygen Content and Their Use for the Analysis of the Contents of Oxide Traps. F. A. Kozlov	353	332
The Determination of the Solubility Product of Thorium Tetrafluoride. N. S. Nikolaev and Yu. A. Luk'yanychev	356	334

Available From Consultants Bureau

CONTENTS (continued)

	PAGE	RUSS. PAGE
Determination of the Concentration of Aerosols of Short-Lived Radon Decay Products. N. P. Kartashov and G. A. Popov	359	336
NEWS OF SCIENCE AND TECHNOLOGY		
XI Session of the Learned Council of the Joint Institute for Nuclear Research. V. Biryukov ...	362	339
Conference of the Committee of Authorized Representatives of Member States of the Joint Institute for Nuclear Research	365	341
Conferences Held in the Socialist Countries on the Use of Research Reactors. V. V. Goncharov	366	342
Symposium on Measurement of Activity in the Human Organism. Yu. M. Shtrukkenberg ...	370	345
Balance Sheet of the Mexico Conference on the Uses of Radioisotopes in Medicine. V. K. Modestov	377	350
Determination of Dissolved Oxygen in Ore Pulp. V. Luk'yanov	380	352
Accident at a Radiochemical Pilot Plant in the USA	381	352
New Glove Boxes for Handling Active Materials. I. M. Gimel'shtein, A. N. Muzis, and É. Ya. Plarksh	382	353
Brief Communications	383	358
BIBLIOGRAPHY		
New Literature	384	359
Available From Consultants Bureau		

Automation and Remote Control

A translation of Avtomatika i Tselmekhanika, a publication of the Academy of Sciences of the USSR

Vol. 23, No. 6

Russian Original Dated June, 1962

December, 1962

CONTENTS

	PAGE	RUSS. PAGE
The Theory of Analytic Design of Controllers. <u>N. N. Krasovskii and A. M. Letov</u>	649	713
The Analytical Design of an Optimal Control in the Case of Constantly Acting Disturbances. <u>M. E. Salukadze</u>	657	721
The Synthesis of Digital Data Converters with Variable Programs. <u>L. N. Volgin and A. I. Fal'kovich</u>	668	732
Compensation of Perturbations in Nonlinear Systems. <u>S. A. Doganovskii</u>	676	739
The Conditions Governing Autonomy of Control for a Continuously Operating Chemical Reactor. <u>V. A. Dozorov</u>	691	756
The Spike Characteristics of Normal Noise. <u>V. I. Tikhonov</u>	696	761
The Average Loss Criterion for Estimating the Reliability of Control Systems. <u>G. A. Shastova</u> Determining the Efficiency with Which Remote Control Information is Transmitted. <u>V. A. Il'in</u>	704	769
The Characteristics of Magnetic Devices with Branched Cores. Part I. <u>G. D. Kozlov</u>	713	778
On Measuring the Maximum Dynamic Differential Permeability. <u>A. I. Kadochnikov</u>	721	786
Bridge-Type Digital-Analog Function Converters. <u>N. A. Smirnov, V. B. Smolov, and V. S. Fomichev</u>	728	795
On Choosing the Type of Selsyn for Remote Transformer Transmission of an Angle. <u>R. K. Pamfilov</u>	734	802
Correlation Functions and Spectral Densities of the Difference Between Two Random Time- Quantized Functions. <u>G. S. Safronov</u>	748	818
On Computing Transient Processes. <u>M. A. Dukhovnyi and E. G. Fainshtein</u>	760	830
Graphico-Analytic Method for Determination of Transfer Function of Automatic Control System From a Given Transient Function. <u>L. N. Darovskikh</u>	764	833
Device for Determining and Storing the Sign of the First Half-Period of an Alternating Process. <u>V. V. Shut'</u>	773	841
A Teachable Logic Machine. <u>B. S. Pritsker</u>	777	844
Available From Instrument Society of America	781	847

CONTENTS

	PAGE	RUSS. ISSUE	RUSS. PAGE
Reactivity of Saturated Hydrocarbons With Free Methyl Radicals in the Liquid Phase I. V. Berezin and O. Dobish	1	1	105
The Mechanism of Anode Oxidation of Silver in Alkali. G. L. Vidovich, D. I. Leikis and B. N. Kabanov.....	5	1	109
New Calculational Methods in Mass-Spectrometric Studies With A Double Effusion Chamber, and the Thermodynamic Properties of Lithium Iodide, L. N. Gorokhov.....	8	1	113
Radiation Chemistry of Aqueous Solutions of Ammoniates of Cobalt (III) and Nickel (II). A. V. Egunov and P. I. Dolin.....	12	1	117
Energy Transfer in the Radiolysis of Toluene Containing Additives. A. T. Koritskii, V. N. Shamshev, and N. Ya. Buben.....	15	1	120
The Adsorption Isotherm on the Discrete Electric Double Layer Model. V. G. Levich and V. S. Krylov.....	18	1	123
Kinetic Hindrances in the Formation of a New Phase During the Cathode Reduction of Certain Metal Oxides. E. A. Mendzheritskii and V. S. Bagotskii..	22	1	127
Effect of Size of Galenite Particles on the Binding of Flotation Collector Reagents. Corresponding member, Academy of Sciences, USSR, I. N. Plaksin and R. Sh. Shafiev.....	25	1	131
Hydrodynamic Properties of Semi-Rigid Macromolecules in Solution, O. B. Ptitsyn and Yu. E. Eisner.....	28	1	134
Nuclear Relaxation in Solutions of Vanadyl Salts Formation of $VO \cdot H^{3+}$ Hydrogen Complexes, A. I. Rivkind.....	31	1	137
Aquation Kinetics of the Monofluorophosphate Ion, I. G. Ryss and V. B. Tul'chinskii.....	34	1	141
The Slow Stage in Reactions Involving Oxidation By Hydrogen Atoms According to Weiss' Mechanism, V. G. Firsov and B. V. Ershler....	38	1	145
The Possibility of Finding The Constants for the Elementary Acts in Catalytic Polymerization, V. I. Tsvetkova, A. P. Firsov and N. M. Chirkov.....	41	1	149
The Unidimensional Model of the Combustion Front of Condensed Mixtures. N. N. Bakhman and Yu. A. Kondrashkov.....	44	2	377
Electron Paramagnetic Resonance in Chelate Polymers, N. K. Bel'skii and V. N. Tsikunov.....	47	2	380
Study of the Elementary Reactions in the Abstraction of Tritium Atoms from Pentatriacontane-18t By Free Cyclohexyl and Heptyl Radicals in the Liquid Phase. I. V. Berezin and Kuo Chiou.....	50	2	383
Nuclear Magnetic Resonance Study of Molecular Motion in Amylose, Lichenin and Cellulose, V. I. Glazkov.....	54	2	387
Some Special Features of the Initiation of Detonation in Low Density Charges. A. L. Gol'binder and L. M. Svetlova.....	56	2	389

Available From Consultants Bureau

CONTENTS (continued)

	PAGE	RUSS. ISSUE	RUSS. PAGE
Phase Diagram of the BaO-SiO ₂ System in the Higher Silica Region. R. G. Grebenshchikov and N. A. Toropov.....	59	2	392
Rapid Photochemical Hydrobromination of Ethylene and Propylene At Low Temperatures. G. N. Kovalev, G. Raabe, R. M. Nalbandyan, V. S. Gurman and G. B. Sergeev.....	63	2	396
Potential Distribution at the Surface of a Strongly Ionized Polymer Macromolecule In a Solution of an Electrolyte. Corresponding Member, Academy of Sciences, USSR, V. G. Levich and Yu. I. Yalamov.....	66	2	399
An Investigation of the Development of the Mechanical Properties of Polymeric Surface Coatings and of the Internal Stresses in them. A. T. Sanzharovskii and G. I. Epifanov.....	70	2	403
Adsorptional Modification of Fillers and Pigments, and Structure Formation in Polymer Solutions. A. B. Taubman, S. N. Tolstaya, V. N. Borodina and S. S. Mikhailova.....	74	2	407
The Maximum Decomposition Rate of Wustite. O. K. Shabalina and Corresponding Member, Academy of Sciences, USSR, G. I. Chufarov.....	78	2	411
Determining the Aggregational Stability of Synthetic Latexes. L. A. Shits and E. M. Aleksandrova.....	80	2	413
The Nature of the Relationship between Chemiluminescence and Oxidation by Molecular Oxygen. R. F. Vasil'ev and A. A. Vichutinskii....	83	3	615
Investigation of the Mechanism of the Oxidation of Propylene to Acrolein on a Cuprous Oxide Catalyst by the Method of Radioactive Tracers. O. A. Golovina, O. V. Isaev, and M. M. Sakharov.....	87	3	619
Certain Properties of the Semiconductor CdSnAs ₂ - An Electron Analogue of Indium Arsenide. N. A. Goryunova, S. Mamaev and V. D. Prochurhan	91	3	623
The Formation of Structure in Crystalline Polystyrene. Academician V. A. Kargin, T. I. Sogolova and G. Sh. Talipov.....	95	3	627
A Thermodynamic Method for Calculating the Solvating Power of Solvents. E. S. Rudakov.....	99	3	629
The Mechanism of Structure Formation in Hydrocarbon Suspension of Carbon Black As Related to the Problem of Active Rubber Fillers. B. Ya. Yampol'skii, Wu Shu-Ch'iu and Academician P. A. Rebinder.....	103	3	633
Paramagnetic Relaxation in Vanadyl Sulfate and its Solutions. G. P. Vishnevskaya and P. G. Tishkov.....	106	4	841
The Formation of Structure in Plastified Crystalline Polystyrene. Academician V. A. Kargin, T. I. Sogolova, and G. Sh. Talipov.....	109	4	844
Electron Paramagnetic Resonance Study of Radiation-Induced-Oxidation-Reduction Mechanisms. V. A. Larin, A. D. Grishina and N. A. Bakh.....	113	4	847
Some Problems in the Theory of Polyelectrolytes at Small Degrees of Ionization. Corresponding Member Academy of Science, USSR, V. G. Levich and Yu. I. Yalamov.....	117	4	851
The Electrolytic Reduction of Copper On a Disc-Ring Electrode. L. N. Nekrasov and N. P. Berezhina.....	121	4	855
Measurement of Adsorption Potentials on Smooth Platinum. A. D. Obrucheva...	125	4	859
The Effect of Oxygen on the Electrical Properties of Titanium Nitride. G. V. Samsonov, T. S. Verkhoglyadova, S. N. L'vov, and V. F. Nemchenko.....	128	4	862
The Behavior of a Pt(O ₂ , CO ₂) Electrode in Molten Carbonates. G. K. Stepanov and A. M. Trunov.....	132	4	866

Available From Consultants Bureau

CONTENTS (continued)

	PAGE	RUSS. ISSUE	RUSS. PAGE
Theory of Electronic Paramagnetic Resonance in Solutions. R. Kh. Timerov....	136	4	870
A Potentiometric Study of Catalytic Dehydration in Dielectric Media. A. B. Fasman, Academician of the Academy of Sciences, Kazakh SSR, D. V. Sokol'skii, A. V. Bykov, K. A. Shchurov and A. Nurushev.....	140	4	874
The Electrode Behavior of Heat Treated Polyacrylonitrile. Academician A. N. Frumkin, L. I. Boguslavskii, and V. S. Serebrennikov.....	143	4	878
The Relation Between the Molecular Weight, The Second Virial Coefficient, and the Dimensions of the Polymer Balls in a Good Solvent. E. V. Eskin.....	147	4	881
The Heat Capacity C of Water and Water Vapor in Phase Transitions, and Hypercritical Parameters. Academician of Azerbaidzhan SSR Academy of Sciences Kh. I. Amirkhanov and A. M. Kerimov.....	149	5	1101
An Investigation of Electrochemical Desorption As Affected by the Structure of the Electric Double Layer. N. A. Bagotskaya.....	153	5	1105
Semi-Classical Treatment of Electron Exchange in Solution. R. R. Dogonadze.. Deuterium Exchange Between Aromatic Hydrocarbons and Liquid Deuterium Chloride. A. I. Kitova and Ya. M. Varshavskii.....	156	5	1108
Fast Chemical Reactions at Low Temperatures. V. A. Lishnevskii, B. M. Uzhinov, and G. B. Sergeev.....	160	5	1112
The Effect of the Structure of the Double Layer on the Irreversible Polarographic Reduction Waves of Organic Substances Having Proton Consumption in the Potential Determining Stage. S. G. Mairanovskii.....	164	5	1116
Semiconducting Properties of Vanadium and Niobium Pentoxide in the Solid and the Liquid State. A. I. Manakov, O. A. Esin, and B. M. Lepinskikh.....	167	5	1120
Activity Coefficients of Cesium Chloride in N-Methylformamide. Yu. M. Povarov, A. I. Gorbaney, Yu. M. Kessler, and I. V. Safonova.....	171	5	1124
The Effect of the Nature of the Alkali Cation on the Diffusion of Protons in Nickel Oxide. G. Ya. Slaidin' and P. D. Lukovtsev.....	175	5	1128
The Effect of Dispersion on the Electron Work Function. A. A. Zhukhovitskii and L. A. Andreev.....	177	5	1130
Enthalpy and Heat Capacity of Tungsten in the Temperature Range 0-2400°C. Corresponding Member, Academy of Sciences, USSR, V. A. Kirilin, A. E. Sheindlin, and V. Ya. Chekhovskoi...	181	6	1319
Polarographic Catalytic Hydrogen Waves as a Function of the Structure of Organic Catalysts. S. G. Mairanovskii.....	184	6	1323
The Effect of the Composition of Boro-Aluminosilicate Glasses on Their Electrode and Acidic Properties. Correspondent-Member of the Academy of Sciences of USSR E. P. Nikol'skii, N. P. Isokova, and M. M. Shul'ts.....	187	6	1327
The Isotope Effect in the Heat Capacity of Certain Deuterated Compounds. I. B. Rabinovich and P. N. Nikolaev.....	191	6	1331
Thermogalvanic Corrosion of Metals. A. Ya. Shatalov, I. K. Marshakov, and S. A. Kaluzhina.....	195	6	1335
Thermogalvanic Corrosion of Metals. A. Ya. Shatalov, I. K. Marshakov, and S. A. Kaluzhina.....	199	6	1339

Available From Consultants Bureau

Soviet Physics

DOKLADY

A Translation of the Physics Sections of the Proceedings of the USSR Academy of Sciences

(Russian Original Vol. 145, Nos. 1-3, July, 1962)

Vol. 7, No. 7, pp. 587-678

January, 1963

CONTENTS

	PAGE	RUSS. ISSUE	RUSS. PAGE
ASTRONOMY			
An Approximate Estimate of the N III Line Decrement in the Spectra of Planetary Nebulae. <u>A. A. Nikitin</u>	587	1	63
CYBERNETICS AND CONTROL THEORY			
On the Algorithmic Complexity of Discrete Functions. <u>Yu. Ofman</u>	589	1	48
On the Global Stability of Nonlinear Automatic Sampled-Data Systems. <u>Ya. Z. Tsypkin</u>	592	1	52
Multiplication of Multidigit Numbers on Automata. <u>A. Karatsuba</u> and <u>Yu. Ofman</u>	595	2	293
HEAT ENGINEERING			
The Influence of Local Raised Heat Fluxes Along the Length of a Channel on the Boiling Crisis. <u>M. A. Styrikovich</u> , <u>Z. L. Miropol'skii</u> , and <u>V. K. Éva</u>	597	1	93
MATHEMATICAL PHYSICS			
The Construction of the Resolvent of the Schrödinger Operator for a Three- Particle System, and the Scattering Problem. <u>L. D. Faddeev</u>	600	2	301
On the Connection between Operators in the Heisenberg and Interaction Representations. <u>A. D. Sukhanov</u>	603	3	545
MECHANICS			
The Formation of a Forward Stagnant Zone in the Flow of a Viscoplastic Liquid Past a Blunt Body. <u>L. G. Bulina</u> and <u>V. G. Savin</u>	606	1	56
The Lagrangian in the Relativistic Mechanics of Continuous Media. <u>K. P. Stanyukovich</u>	608	1	59
Effect of Friction on the Critical Load of a Compressed Rod. <u>M. Ya. Leonov</u> and <u>L. M. Zorii</u>	611	2	295
Curvature of Linearly Enveloping Cycloidal Curves. <u>I. L. Artobolevskii</u>	614	3	541
MECHANICS OF CONTINUOUS MEDIA			
Manifestation of Pressure from Overlying Rock in Horizontal Excavations. <u>L. V. Ershov</u>	617	2	298
PHYSICS			
Effect of Trapping Levels on the Kinetics of Electron Processes at p-n Junctions. <u>É. I. Adirovich</u> and <u>E. M. Kuznetsova</u>	620	1	67
Available From American Institute of Physics			(continued)
Soviet Physics - Doklady			
Vol VII, No 7			

CONTENTS (continued)

	PAGE	RUSS. ISSUE	RUSS. PAGE
A High-Pressure and High-Temperature Apparatus with Several Pairs of Electric Leads. <u>L. F. Vereshchagin, A. A. Semerchan, V. M. Zubkov,</u> and <u>N. N. Kuzin</u>	623	1	71
Effect of Forced Oscillation of a Crystal on the Spectrum of Scattered γ Quanta. <u>I. P. Dzyub and A. F. Lubchenko</u>	625	1	73
The Problem of the Calculation of Regge Poles. <u>G. Domokosh</u>	628	1	76
Two Mechanisms of Formation of the Latent Electrophotographic Image. <u>V. M. Fridkin and Yu. N. Barulin</u>	629	1	78
Interaction between Charges and an Electron Plasma in a Magnetic Field. <u>A. B. Kitsenko</u>	632	2	305
Spectroscopically Measured Dipole Relaxation Times of Bromides. <u>M. F. Vuks</u> and <u>I. A. Chernyavskaya</u>	636	3	549
Grüneisen Parameter for NaCl at High Pressures. <u>V. N. Zhaikov</u> and <u>V. A. Kalinin</u>	638	3	551
Separating a Self-Consistent Field in a Superfluid Model of the Nucleus. <u>A. Pavlikovskii</u>	641	3	555
Possibility of a Change in Sensitivity of an Emulsion during Irradiation. <u>D. M. Samoilovich, E. S. Barinova, and I. V. Ardashev</u>	643	3	557
Effect of Noise on the Spectral Composition and Angular Distribution of Radiation Emitted by a Finite Plane-Parallel Layer. <u>B. I. Stepanov</u> and <u>A. M. Samson</u>	645	3	560
TECHNICAL PHYSICS			
The Effect of Alloying Elements on the Superconducting Properties of V_3Si . <u>N. E. Alekseevskii, E. M. Savitskii, V. V. Baron, and Yu. V. Efimov</u>	648	1	82
The Nature of Hardening in Glass. <u>F. F. Vitman, I. A. Boguslavskii,</u> and <u>V. P. Pukh</u>	650	1	85
Determination of the Sensitivity of a Quantometer for Energies of 15 to 300 MeV. <u>A. P. Komar, S. P. Kruglov, and I. V. Lopatin</u>	653	2	309
Separate Determinations of Dynamic and Static Deformations of Solid Solutions by the Weakening of the Interference Maxima in the Case of an Arbitrary Phonon Spectrum. <u>S. V. Seimenovskaya and Ya. S. Umanskii</u>	656	2	312
BIOPHYSICS			
Relationship between Effectiveness of Radioprotective Substances and Oxygen Content of Inspired Air and Tissues. <u>E. Ya. Graevskii</u> and <u>M. M. Konstantinova</u>	661	1	195
Biological Protection of Skeleto-muscular Tissue from Injury by Ionizing Radiation. <u>A. N. Studitskii and M. F. Popova</u>	664	1	198
Effect of Temperature on Efficiency of Primary Process of Conversion of Light Energy in Photosynthesis. <u>L. A. Tumerman and A. B. Rubin</u>	668	1	202
Effect of Duration of Moderate Hypothermia on Tissue Oxygen and Radiosensitivity of Mice. <u>M. M. Konstantinova</u>	671	1	206
Diphosphopyridine Nucleotide Effect in Respiration of Tissue Homogenates from γ -Irradiated Rats. <u>V. A. Kopylov and A. M. Kuzin</u>	674	2	238

Available From American Institute of Physics
Soviet Physics - Doklady
Vol VII, No 7

TELECOMMUNICATIONS AND RADIO ENGINEERING

PART I: TELECOMMUNICATIONS ELEKTROSVYAZ'

No. 6

1962

CONTENTS

	Page
V. Ye. Bukhviner: Designing a Discrete Synchronization System	1
V. V. Lebedev: Graphical Design Computation of Automatic Gain Control Filters in Receiving Instruments	9
Ye. I. Kuflevskiy: Analysis of a Selective Amplifier Using a Detuned Twin-T Bridge Network in the Feedback Circuit	21
K. P. Polishchuk: Designing a Double-Stub Matching Device	32
N. A. Ponomareva: Tester for Transistor Parameters	38
T. M. Sakharova: Conversion of Bridged Circuits in Electrical Filters into Ladder Networks	48
G. A. Arkhangel'skiy: Interaction of High-Frequency Cable Circuits in the Presence of an Asymmetrical Load	61
O. I. Pankratova: Qualitative Evaluation of Telephone Communications in Bunched Lines with Fixed Registers	64
Brief Communications:	
E. Ya. Ryskin: Differentiation of Random Processes	73
Authors' Certificates	76
Foreign Patents	78
Bibliography	81
Available From American Institute of Electrical Engineers	

PETROLEUM GEOLOGY

TABLE OF CONTENTS
Vol. 4, No. 6-B, 1960

1. Conditions of formation of local structures of the central Cis-Caucasus. Z. A. Tabasaranskiy p. 347
2. Results of application of the telluric current method in the border zone of the Peri-Caspian depression. B. A. Shabanov and L. A. Gorelov p. 354
3. Geothermal features of the Ozek-Suat oil field and of other regions of the Tersko-Kuma Plain. K. I. Vorob'eva p. 359
4. The heavy hydrocarbons in the gases of coals of the Donets Basin. V. P. Kozlov p. 363
5. Problem of the oil-gas capability of Central Asia. N. Tuaeov. p. 366

Available From Review of Russian Geology

GEOMAGNETISM I AERONOMIY
Vol I, No 1, 1961

TABLE OF CONTENTS

From the Editors	1
N. P. Ben'kova: Ionospheric Investigations in the USSR	2
Sh. Sh. Dolginov, Ye. G. Yeroshenko, L. N. Zhuzgov, N. V. Pushkov: Investigation of the Magnetic Field of the Moon	18
Yu. I. Logachev: Determination of the Electron Spectrum in the Outer Radiation Belt during the Flight of the Second Soviet Cosmic Rocket (12 September 1959)	26
A. V. Gurevich, Ye. Ye. Tsedilina: The Effect of a Constant Electric Field on Electron Temperature in the Ionosphere	30
Ye. V. Kolomeyets: Effect of "Minor" Solar Flares Attended by Type IV Radiobursts ..	37
A. D. Danilov: Luminescence of Atomic Nitrogen Lines in the Night Sky	41
A. Ya. Pressman, S. P. Yatsenko: The Possibility of Measuring the Temperature of the Upper Layers of the Atmosphere with a Narrow Tube	45
L. S. Yevlashin: Space-Time Variations of Hydrogen in Aurorae and their Relationship to Magnetic Disturbances	50
V. I. Afanas'yeva: Families of Geomagnetic Storms and Solar Corpuscular Streams ...	55
L. N. Zhigalov, N. N. Zhigalova: The Distribution of Magnetic Activity in a Narrow Sector of Longitudes in the Eastern Arctic	62
V. B. Glasko, A. G. Sveshnikov: On Electric Fields in Ocean Currents Caused by the Earth's Magnetic Field	68
G. A. Fonarev: Marine Telluric Currents and their Relationship to Magnetic Variations	77
N. P. Ben'kova, L. O. Tyurmina: Analytical Representation of the Geomagnetic Field over the Territory of the Soviet Union for the 1958 Epoch	81
M. M. Ivanov: The Accuracy of World Magnetic Charts for Ocean Areas	97
S. P. Burlatskaya, G. N. Petrova: The Archeomagnetic Method of Studying Changes of the Geomagnetic Field of the Past	104
G. V. Vasil'yev, K. N. Vasil'yev, L. P. Goncharov: The AIS Automatic Panoramic Ionospheric Recorder	113

NEWS NOTES

Yu. D. Kalinin: Conference on Geomagnetism	119
--	-----

REVIEWS

Ye. S. Glokova: Variations in the Intensity of Cosmic Rays	121
--	-----

Available From the American Geophysical Union

Measurement Techniques

*A translation of Izmeritel'naya Tekhnika, a publication of the
Academy of Sciences of the USSR
(Russian Original Dated June, 1962)*

1962, No. 6, pp. 447-532

December, 1962

CONTENTS

	PAGE	RUSS. PAGE
Classification of Measuring Devices by their Accuracy. <u>A. I. Kartashev and D. L. Orshanskii.</u>	447	1
Classification of Electrical Measuring Equipment. <u>A. M. Turichin.</u>	451	5
Classification of Automatic Measuring Instruments. <u>V. M. Shlyandin</u>	456	9
LINEAR MEASUREMENTS		
Measuring Linear Contraction of Alloys. <u>P. P. Drevetnyak and E. I. Ivanov</u>	459	11
Instrument for Determining the Shape of a Piston Ring. <u>A. A. Starosel'skii and K. A. Fel'kner</u>	461	13
Device for Checking Precision Holes. <u>I. A. Grigor'ev and V. I. Moskvichev.</u>	462	14
Device for Checking Dial Gauges and Indicating Hole Gauges. <u>E. M. Evich.</u>	463	15
Investigation and Measurement of the Cutting Edges of Razor Blades. <u>E. V. Lorents</u>	464	15
MECHANICAL MEASUREMENTS		
Measuring Pressures Below 10^{-3} mm Hg with a Compensated Mercury Manometer. <u>A. V. Eryukhin</u>	466	16
Strain-Gauge Pressure Transducers of a New Design. <u>R. I. Vinogradov.</u>	471	20
THERMOTECNICAL MEASUREMENTS		
Calibration of Thermocouples in a Dynamic Condition. <u>Vanbo Pak</u>	475	23
ELECTRICAL MEASUREMENTS		
Determining the Gyromagnetic Ratio of a Proton by the Gamma Method of Free Nuclear Induction. <u>B. M. Yanovskii and N. V. Studentsov.</u>	481	28
Application of Thermal Detectors at Infrasonic Frequencies. <u>O. N. Gravin, O. P. Galakhova, and E. D. Koltik</u>	486	31
Instrument for Automatic Measurements of the Serviceability of Electromagnetic Relays. <u>R. G. Martynov, F. A. Sorokin, and V. D. Dmitriev.</u>	489	34
Certain Dynamic Problems in Photocompensated Amplifiers. <u>S. G. Rabinovich.</u>	491	36
Stressed Suspensions with a Small Thermal EMF with Respect to Copper. <u>Z. A. Timofeeva and T. G. Petrova</u>	497	40
Effect of a Low-Resistance Voltmeter on the Operation of a Circuit. <u>Yu. I. Grivanov.</u>	499	42
Portable High-Precision Potentiometer. <u>A. S. Krutikov</u>	502	44
Phase-Sensitive Voltmeter for Determining Hysteresis Loops by Means of an Alternating Current. <u>E. N. Chechurina</u>	503	45
VOLUME MEASUREMENTS		
New Commercial Vending Machine for Liquids. <u>I. G. Krichevskii, L. V. Mednikov, N. M. Rakhlevskii, and I. G. Fel'dman</u>	507	48
PHYSICOCHEMICAL MEASUREMENTS		
Calibration and Testing of Gas Analyzers for Detecting Gasolene Vapor in Air. <u>D. K. Kollerov</u>	509	49
Measuring Concentrations of Electrolytes by a Differential Ultrasonic Instrument. <u>V. A. Nosov, S. K. Barashkov, M. A. Dyachenko, and A. P. Sosenko</u>	511	51

Available From Instrument Society of America

CONTENTS (continued)

	PAGE	RUSS. PAGE
INSPECTION OF MEASURES AND MEASURING INSTRUMENTS		
GKLs (State Inspection Laboratories) Should Render the Utmost Assistance to Agriculture.		
<u>L. Sh. Vinderman</u>	515	54
Improving Measuring Equipment Inspection Methods. <u>M. P. Smirnov</u>	517	55
Specialization in the Manufacture of Mechanical Test Machines and Instruments. <u>A. E. Omel'yanov</u>	518	58
REVIEWS AND REPORTS		
Organization of Inspection in Engineering Abroad. <u>M. I. Mekler</u>	519	57
INFORMATION		
Scientific and Technical Conference on Hygrometry. <u>E. S. Krichevskii</u>	524	60
Month Dedicated to New Measuring Equipment	525	61
New High-Precision Measuring Instruments. <u>P. P. Arapov</u>	526	62
FROM FOREIGN JOURNALS	529	64
Available From Instrument Society of America		

CONTENTS

Change in conductivity incident to magnetization and magnetic anisotropy in ferrite single crystals of the $Mn_xFe_{3-x}O_4$ system - K.P.Belov & A.V. Zalesskii	1447
Temperature dependence of the low-field magnetization of manganese ferrite - E.F.Kovtun & A.S.Mil'ner	1450
Behavior of domain structure during magnetization - V.A.Ignatchenko, I.F. Degtyarev & Yu.V.Zakharov	1452
Variation of the magnetization switching process with reduction in particle size - E.V.Shtol'ts, A.A.Glazer & Ya.S.Shur	1458
Investigation of domain walls in transformer steel - M.K.Savchenko & V.I.Sinegubov	1462
Influence of the direction of demagnetization on the magnetic structure of crystals in sheet silicon steel - V.R.Abel's	1466
Regarding the stability of the magnetic state of soft materials - V.A. Zaikova & I.E.Startseva	1469
Effect of ultrasonic vibration and alternating magnetic fields on the domain structure of silicon steel - D.A.Laptei & V.S.Cherkashin	1475
Development of mirror electron microscopy of magnetic microfields - G.V. Spivak, L.V.Kirenskii, R.D.Ivanov & N.N.Sedov	1481
Concerning the rectangularity of the hysteresis loops of Mg-Mn ferrites - I.E.Startseva & Ya.S.Shur	1485
Temperature dependence of the first anisotropy constant and the magnetic structure of Fe-Mn ferrites - L.V.Kirenskii, A.I.Drokin, V.D.Dylgerov, N.I.Sudakov & E.K.Zagirova	1488
Determination of the character of the magnetic anisotropy of alloys with single domain structure from their residual magnetization - M.G.Luzhinskaya	1492
On the nature of the coercive force in Alnico alloys - A.S.Ermolenko & Ya.S.Shur	1495
Carbonyl iron powders - V.L.Volkov, I.S.Tolmasskii & A.E.Fridenberg	1500
Investigation of rotational hysteresis in cold rolled and recrystallized nickel - N.L.Bryukhatov & N.A.Grinchar	1503
Rotational hysteresis of magnetostriction in ferromagnets - L.V.Kirenskii & V.S.Afoshin	1508
Crystal and magnetoelastic anisotropy and its temperature dependence in iron-nickel single crystals - I.M.Puzel	1511
Effect of the field strength in magnetic annealing on the magnetic properties of cold-rolled electrical steel - D.D.Nishin, T.I.Bychkova & V.A.Smagin	1515
Magnetic texture of ferromagnets subjected to external stresses - F.N.Dunaev	1519
Investigation of the effect of creep of nonsymmetrical hysteresis loops - O.V.Rosnitskii	1524
Stability of the magnetization of ferromagnets as a function of the magnetizing process - L.Ya.Frimerman	1528
Available From Columbia Technical Translations	

IZVESTIYA AKADEMII NAUK SSSR,
SERIYA FIZICHESKAYA
Vol XXV, No 12, 1961

CONTENTS (CONT'D)

Magnetization and magnetostriction jumps in nickel - A.Ya.Vlasov & Yu.D.Tropin	1532
Effect of mechanical factors on the magnetic structure and properties of alloys - L.N.Fedotov, V.P.Popova & B.V.Molotilov	1535
Properties of ferromagnetic films prepared by cathode sputtering - R.D.Ivanov, G.V.Spivak & G.K.Kislova	1541
Available From Columbia Technical Translations	

Bulletin of the Academy of Sciences of the USSR - Physical Series

TABLE OF CONTENTS

Transactions of the Tenth Conference on Luminescence, Dedicated to the
Memory of S.I.Vavilov (To be continued in Vol.26, No.4)

	Page	
	Orig.	Trans.
Opening address - V.L.Levshin	2	3
Life and work of Sergei Ivanovich Vavilov - A.P.Sevchenko & A.A.Shishlovskii	7	8
Radiation from charged particles moving faster than light and its utilization in the physics of high-energy particles - P.A.Čerenkov	14	14
Deactivation of the triplet state of aromatic molecules - A.P.Terenin & V.L.Ermolaev	21	21
Present state of the theory of luminescence of complex molecules - B.I.Stepanov	32	32
Energy migration in solutions and the association theory of luminescence quenching - V.L.Levshin	43	44
Spectral-luminescent investigation of porphyrins - A.N.Sevchenko	53	54
Regarding Bouguer's law (Lambert's absorption law) - V.A.Fabrikant	61	61
Investigation of excitation energy migration in molecular crystals by observation of the polarization of their luminescence - N.D.Zhevandrov	67	67
Luminescence of gadolinium salts - A.N.Zaidel', G.S.Lazeeva, G.V. Ostrovskaya & P.P.Yakimova	74	74
Relaxation of the solvent during the excited lifetime of the solute molecules and fluorescence spectra - A.S.Cherkasov	81	81
Uses of luminescence in biological research - L.A.Tumerman	84	84
Spectral investigation of the luminescence of malignant tumors - A.V.Karyakin	94	93
Luminescent metachromasy - M.V.Savost'yanova	100	98
Photoluminescence of halide salts of heavy metals and semicon- ductor crystals - M.U.Belyi, I.S.Gorban' & A.A.Shishlovskii	103	100

Available From Columbia Technical Translations

Transactions of the Eleventh Conference on Nuclear Spectroscopy
(Concluded from Vol.25, Nos.2,7,9 & 10)

Decay scheme for Eu^{149} - Wang-Fu-chün, I.Vizi, K.Gromov, B.Dzhelepov, Zh.Zhelev, A.Kudryavtseva & Yu.Yazvitskii	114	112
Conversion electrons of short-lived platinum and tungsten isotopes - E.P.Grigor'ev, B.S.Dzhelepov, V.Zvol'ska, A.V.Zologavin, T.V.Malysheva, B.A.Khotin & J.Adam	120	118
Investigation of neutron-deficient tantalum isotopes - T.V.Malysheva, L.P.Moskaleva, G.M.Chernov & L.V.Filatova	125	122
On the rotational nature of the 3.7-hour isomeric state of Lu^{176} - I.Rezanko, J.Frana, J.Adam & L.K.Peker	127	124
Concerning nuclear reactions involving exchange of surface nucleons - M.Z.Maksimov	131	128
Nucleon motion in deformed light nuclei - B.I.Tishchenko, A.A.Kresnin & E.V.Inopin	138	135
Screening effect for forbidden beta-spectra - L.N.Zyryanova	148	145
Correction to the shape of allowed beta-spectra, arising from the matrix elements of the relativistic Dirac operators - L.N.Zyryanova & A.A.Pantyushin	150	146
Collective levels and deformations of nuclei with $N = 82$ to 90 - V.I.Popov	153	149

Available From Columbia Technical Translation.

CONTENTS

	English	Page Russian
PHYSICS OF THE SOLID EARTH		
YU. P. BULASHEVICH, I. N. SEN'KO-BULATNYI AND L. L. DEEV, Neutron Logging with a Gamma-Ray Spectrometer	727	1153-1157
A. A. MEIER, Potential of a Direct-Current Point Source in a Half-Space with Linearly Varying Conductivity or Resistivity	730	1158-1162
B. S. ENENSHTEIN, Interpretation of Two-Layer Curves from Electromagnetic Prospecting Using Alternating Current for	733	1163-1169
I. O. OSIPOV, Rayleigh Waves at the Interface of Two Media with Cubic Anisotropy	737	1170-1190
T. I. OBLOGINA, V. B. PIIP AND S. KOCHIAL, The Use of Seismic Methods to Study Intrusives	746	1191-1205
E. I. POPOV, The Duration of Observations with Heavily Damped Gravity Meters on a Mobile Base	755	1206-1214
E. G. BULAKH, Interpretation of Gravitational Anomalies Obscured by a Regional Effect	761	1215-1218
CHRONICLE		
B. M. ARKHANGEL'SKAYA, Conference on the Study of Surface Waves	763	1219-1220
PHYSICS OF THE SEA AND OF THE ATMOSPHERE		
S. A. KITAĖGORODSKIĖ AND S. S. STREKALOV, Contribution to an Analysis of the Spectra of Wind-Caused Wave Action. I	765	1221-1228
V. S. LATUN, The Upwelling of Deep Water Near the Southwest Coast of Africa . .	770	1229-1239
Z. F. GURIKOVA, On the Calculation of the Currents in the Surface Layer in the Northern Sector of the Pacific	776	1240-1250
ZH. M. KHATUKAEVA AND L. N. GUTMAN, The Problem of a Cold Air Mass Spilling over a Mountain Ridge Considering Air Density Decrease with Height	782	1251-1260
V. N. IVANOV, Turbulent Energy Dissipation in the Atmosphere	788	1261-1267
YE. M. FEĖGEL'SON AND O. N. DOBROVA, Light Scattering in a Stratiform Cloud	792	1268-1277
S. D. GUTSHABASH, Diffusion of Radiation in a Plane Layer	797	1278-1285
I. I. VERNIDUB, A. S. ZHIKAREV, KH. KH. MEDALIEV, N. S. PRAVDUN, G. K. SULAKVELIDZE AND G. G. CHUMAKOVA, Investigation of the Ice-Forming Properties of Lead Iodide Aerosols	801	1286-1293
COMMUNICATIONS		
L. M. ROMANOVA, Application of Kellog's Method for Calculating the Intensity of Radiation in the Interior of a Scattering and Absorbing Medium . . .	807	1294-1296
Available From American Geophysical Union		

REPORTS FROM THE HIGHER EDUCATIONAL INSTITUTIONS - TECHNOLOGY
OF THE TEXTILE INDUSTRY

IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENIY,
TEKHNOLOGIYA TEKSTIL'NAYA PROMYSHLENNOSTI

No 2, 1961

CONTENTS

Textile Materials Research

Pavlov, A.I.

Changes caused by milling process in the yarn properties of coarse-
wool cloth. 3

Usenko, V.A. and Kalandarov, D.I.

Effect of twist on the physical and mechanical properties of
viscose cord yarn 11

Feiman, I.I.

Yarn strength as a function of clamping length 18

Koritskii, K.I.

The pre-determination of the strength of plied yarns 26

Komarov, B.P.

Effect of compression in bulk on certain physical and mechan-
ical properties of flax fibre (communication No.1) 35

Raw Material and Primary Treatment

Pozhidaev, N.N.

Cotton blending and cleaning processes on the automatic pro-
duction line. 45

Rubinov, E.B.

A new method of establishing the speed conditions for auto-
matic silk reels operating on the thread extension principle. . . 50

Barbakov, M.M.

The problem of selecting the most efficient diameter for
the fluted rollers of breaking machines 60

Spinning

Nemzer, G.M.

Reducing irregularity in sliver, roving and yarn 66

Birenbaum, E.I.

On selecting the length of man-made staple fibres for blends
with natural fibres 75

Protasova, V.A.

On the curve of attenuation 79

Weaving

Redozubova, E.P.

Weft tension during weaving 84

Available From The Textile Institute

IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENIY,
TEKHOLOGIYA TEKSTIL'NAYA PROMYSHLENNOSTI

No 2, 1961

CONTENTS (CONTD)

Isakov, N.P.	
Yarn tension in a balloon	92
Finishing	
Fedorova, N.E. and Moryganov, P.V.	
A continuous single-stage method of bleaching cotton fabrics with highly stable solutions of hydrogen peroxide	100
Mikhailenko, P.I.	
Analysis of the structure of metallised dye complexes of nitroso and azo dyes produced directly on protein and poly- amide fibres (communication No.1)	108
Krichevskii, G.E. and Sadov, F.I.	
Methods of analysing cellulose materials for carboxyl groups	119
Automation, Engineering, Power	
Shishlo, K.S.	
Extending the speed control range of a.c. commutator motors . .	125
Pivovarov, Yu.A. and Shamshurin, Yu.A.	
Measurement of loom driving torque	129
Il'in, I.Ya.	
Analysis of the tow tension on the RPN-1100-11 type staple cutter for man-made fibre	132
Regel'man, Kh.Z.	
Experimental analysis of bobbin holder oscillation in a glass spinning system	140
Budanov, K.D.	
Pressure in the rollers of a printing machine	148
Brief Items, Reviews, Bibliography	
Usenko, V.A.	
International scientific and technical conference and fair in Bulgaria	161
Available From The Textile Industry	

Soviet Rubber Technology

No. 2

FEBRUARY, 1962

"Kauchuk i Rezina"

Vol. 21

CONTENTS

	Page
Viscosity of the reaction medium during the polymerisation of isoprene. Yu. A. Litvin, V. M. Nepyshnevskii and G. M. Sinaiskii	2 (1)
Fluoro-elastomer vulcanisates of the "Viton A" type containing benzoyl peroxide. A. S. Novikov, F. A. Galil-Ogly and N. S. Gilinskaya	5 (4)
Flow of certain rubbers and stocks. F. I. Galperin, E. S. Olshevskaya and A. V. Insarova	10 (10)
Constancy of the specific volume of rubber and its influence on the nature of its small natural vibrations. V. L. Anisimov	13 (13)
Relationship between equilibrium and non-equilibrium elongation of vulcanisates. G. T. Darovskikh and A. B. Kusov	15 (15)
Rubber-fabric materials and the dependence of their properties on the bond strength between the rubber film and fabric base. V. G. Raevskii, M. G. Maizels and S. S. Voyutskii	17 (17)
Strain-gauge dynamometers and their use for measuring the pressure of the stock in internal mixers. R. Ya. Sutin	22 (23)
Increasing the life of tubeless lorry tyres. L. G. Khrapurov	24 (26)
Calculation of the parameters of an assembly bench for bicycle tyres. N. G. Bekin and N. G. Krylov	26 (28)
Determination of optimum cure time from the static compression modulus. V. A. Lepetov and A. D. Chelmodeev	31 (34)
Recording dynamometer for studying relaxation processes in polymeric materials. A. M. Snisarenko and Z. N. Tarasova	33 (37)

EXCHANGE OF EXPERIENCE

Automatic control of traces of coarse fractions in rubber fillers. G. I. Blyakh, I. G. Grinman and A. Ya. Gusev	35 (39)
Modification of open-side hydraulic presses. M. K. Bronzman	37 (41)
Tyre assembly machine with collapsible shoulder drum. K. I. Gorskaya and A. I. Konkova	38 (42)
Remote control of the quality of assembled tyres. G. P. Goloulina, S. Z. Shugol, V. P. Katushkin and M. N. Knyazev	39 (44)
Attachment to an automatic loading truck for gripping tyres. V. N. Andreev	41 (45)
Improved treatment of test results. I. L. Gofinbn	42 (47)

Numeral in parentheses refer to the pages of the Russian original

Available From Rubber and Plastics Research Association

KINETICS AND CATALYSIS

A translation of *KINETIKA I KATALIZ.*
a publication of the Academy of Sciences of the USSR

© 1962 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N. Y.

Vol. 3, No. 2

March-April, 1962

CONTENTS

P A G E
ENG. | RUSS.

All-Union Conference on Heterogeneous Catalytic Oxidation of Organic Compounds, I. I. Ioffe	145	171
Problems in the Kinetics and Reaction Mechanism of Heterogeneous Catalytic Oxidation of Organic Compounds. I. I. Ioffe	148	175
Modification of Catalysts for the Oxidation of Hydrocarbons. L. Ya. Margolis, E. Kh. Enikeev, O. V. Isaev, A. V. Krylova, and M. Ya. Kushnerov	153	181
The Modifying Action of Additives to the Ethylene Oxidation Catalyst. V. E. Ostrovskii, N. V. Kul'kova, V. L. Lopatin, and M. I. Temkin	160	189
Phase Composition of Mixed Vanadium Catalysts Used in The Oxidation of Aromatic Hydrocarbons. I. I. Ioffe, Z. I. Ezhkova, and A. G. Lyubarskii	165	194
The Effect of the Conditions Used in the Preparation of Silver on Its Specific Activity in the Catalytic Oxidation of Ethylene. A. A. Belaya and M. Ya. Rubanik..	171	201
The Kinetics of Catalytic Oxidation of Ethylene. A. I. Kurilenko, N. V. Kul'kova, L. P. Baranova, and M. I. Temkin	177	208
The Oxidation of Ethylene in a Fluidized Bed Catalyst. G. K. Boreskov, L. A. Vasilevich, R. N. Gur'yanova, V. Sh. Kernerman, M. G. Slin'ko, A. G. Filippova, and B. B. Chesnokov	182	214
Kinetics of the Oxidation of Propylene to Acrolein on a Copper Catalyst V. M. Belousov, Ya. B. Gorokhovatskii, and M. Ya. Rubanik	188	221
Transfer Process in the Oxidation of Propylene to Acrolein. Ya. B. Gorokhovatskii, E. N. Popova, and M. Ya. Ya. Rubanik.	196	230
Oxidation of Propylene to Acrolein on Cu/Al ₂ O ₃ Catalysts, Modified with Molybdenum Oxides. L. M. Kaliberdo, V. A. Pilosyan, and N. I. Popova	202	237
Oxidation of Some Unsaturated Hydrocarbons on Copper Catalysts. N. I. Popova, E. E. Vermel', and F. A. Mil'man	206	241
The Catalytic Oxidation of Propylene to Acrolein in the Presence of Selenium. B. D. Kruzhalov, E. S. Shestrukhin, and A. M. Garnish	211	247
Catalytic Oxidation of Propylene to Acrolein in the Presence of Inert Diluants. A. G. Polkovnikova, B. D. Kruzhalov, A. N. Shatalova, and L. L. Tseltina	216	252

Available From Consultants Bureau

CONTENTS

L. Jurkiewicz, Some Applications of Radioisotopes I Mechanical and Metallurgical Investigations .	1
A. I. Chernowa, S. Ya. Mints, On the Reduction of Ferric Oxide Ions Caused by the Effect of Gamma-Radiation upon Aqueous Solution Containing Certain Organic Substances . . .	14
W. Smulek, Tritium-Radioisotope of Hydrogen	18
E. Herczyńska, Measurement of Tritium Activity in the Gaseous Phase	26
A. Szuchnik, M. Wolska-Witerowa, J. Lesińska, B. Łucka, K. Russin, J. Falecki, Some Problems on the Synthesis of Organic Labelled Compounds	33
W. Filipczak, M. Sztajnkaler, Reactor Kinetics Simulator	38
K. Przewlocki, The Development of Nuclear Geophysics	47
Conference of Physics Chairs of Higher Technical Schools	66
Communication on Conference of Commission on Radioactive Contamination of the Atmosphere, Hydrosphere and Geosphere	74
Communications	75
Chronicle	83

Available From AEC-Tr-4153

CONTENTS

S. Minc, L. Stolarczyk - Some Aspects of Radiation Chemistry in Aqueous Solutions	1
V. A. Sharpatyi, V. D. Orekhov, Ya. Karpov - On the Radiolytic Reduction of Aqueous Sodium Nitrate Solutions Saturated with Hydrogen	12
W. Frankowski - Selecting the Characteristics of a Materials Testing Reactor	14
M. Krejčí, M. Melichar, M. Zikan - Analogue Computers in Reactor Engineering and the Simulator at the Czechoslovak Institute of Nuclear Physics	25
W. Dąbek - Ionization Current Chambers Used in the Control of Nuclear Reactors	39
A. M. Dancewicz - Radiological Work of Health Protection of Nuclear Research Institute	59
W. Hermanowicz, S. Guberski, W. Gutowski, Z. Szperliński, E. Wróblewska - Examination of the Vistula Water within the limits of Greater Warsaw	68
Communications	76
Chronicle	85

Available From AEC-Tr-4154

CONTENTS

W. Trzebiatowski, A. Bogacz, I. Borycka — Investigations on the Reduction of Uranium (IV) Fluoride by Liquid Aluminium in Molten Salt Mixtures	1
I. Zlotowski, M. Zieliński — Some Relations between the Mechanism of the Reaction Co (gas) $\xrightarrow{P_2O_5}$ CO ₂ (gas) and the Kinetic Isotope Effect for C ¹⁴	8
R. Broszkiewicz, Applications of Radioisotopes in Poland in 1958	18
S. Zmysłowska, Gamma-ray Scintillation Spectrometer in Use for Simultaneous Estimation of the Concentration of Uranium, Thorium and Potassium in Specimens of Rocks and Soils	30
R. Pomerski, Nuclear Power Prospects and the World Trends in Power Production Costs . . .	42
T. Owczarski, Reliability of Reactor Coincidence Safety Systems	56
The sixth Congress of the Polish Chemical Society	65
Communications	75
Chronicle	89

Available From AEC-Tr-4155

NUKLEONIKA,
Nos 1-12, Vol V, 1960

CONTENTS

ISSUE 1-2

J. Aleksandrowicz - One year of WWR-S reactor exploitation in Poland	1
W. Frankowski - Concept of an industrial scale facility for non-destructive analysis of irradiated fuel elements	20
I. Zlotowski, M. Zieliński - Isotope effect in pyrolysis of $^{14}\text{CH}_3\text{COONa}$	23
S. Minc, T. Bryl - The influence of light on the absorption spectra of uranyl nitrate solutions in tributylphosphate	27
S. Minc, W. Rafalski - Preparation of thorium metal in compact form by electrolytical deposition from fused salts	39
W. Korpak, K. Majchrzak - The sorption of uranium from carbonate solutions on strongly basic anion exchanger	45
W. Korpak, C. Deptuła - The tri-n-butyl phosphate (TBP) - diluent - $\text{HNO}_3\text{-H}_2\text{O}$ system	53
W. Kołos - On the reactivity of some ionized hydrocarbons	61
Z. Jaworowski - An improved method for determination of radioactive iodine in rainwater and urine	68
COMMUNICATIONS	
Fast two-channel coincidence system, type III/5-58	73
Diplex generator, type III/5-58	76
Plastic scintillators	77
Laboratory alarm survey meter, type SL-8	78
SUPPLEMENT	
H. Niewodniczański, J. Zakrzewski - The first "Large Cyclotron" in Poland . .	81

ISSUE 3

Obituary Professor Andrzej Sołtan - S. Szczeniowski	103
S. Minc, M. Siekierska - Chloro-uranyl complex formation in isopropyl alcohol . .	109
J. Minczewski, J. Malinowski, T. Jankowska - On some methods of separation and determination of uranium	114
W. Korpak, C. Deptuła - Effects of chlorides and sulphates on extraction of uranium and iron by tri-n-butyl phosphate	120
A. Kostyrko - Investigations of water decomposition due to radiation in the primary cooling circuit of the "Ewa" reactor	129
J. Domanus, B. Osuchowski - The concept of "gram-equivalent-of-Radium" non-point isotopic gamma-ray sources	138
COMMUNICATIONS	
Comparative measurements of organic phosphors	143
Low threshold pulse height discriminator	151
Three-level monitor of ionizing radiation	155

Available From AEC-Tr-4156-4166

CONTENTS (Contd)

NUKLEONIKA, Nos 1-12, Vol V, 1960

ISSUE 4

W. Chomka - Measurement of caesium diffusion coefficient of in NaCl mono-crystal by the integral method of longitudinal section	159
K. Mikke, L. Adamski, E.T. Józefowicz - Scintillators of the ZnS (Ag)-paraffin type for fast neutrons	167
T. Rzeszut - Measurement of the angular distribution of neutrons scattered from the reactor channel	175
E. Herczyńska - Mechanism of anion and cation deposition from aqueous solutions	179
S. Siekierski, R. Gwóźdź - Studies on the system TBP - HClO ₄ - H ₂ O	187
Z.P. Zagórski, W. Ney - A unit for direct investigation of systems physico-chemical methods in the gamma radiation field	200
J. Domanus, L. Halski - Measurements of gamma-ray doses of various radio-isotopes by the test-film method	206

ISSUE 5

I. Złotowski, A. Stroka - A study of the relative abundance ratio of isotopes ³² S and ³⁴ S in some polish native sulphur deposits	215
Z.P. Zagórski - The determination of the G-value of δ-radiation-induced reactions by polarographic electrolysis at constant potential	223
I. Złotowski, H. Wincel - Mass spectrometric studies of chemical processes occurring in a selfquenching Geiger-Müller counter filled with long-chain saturated hydrocarbons	230
J. Domanus, B. Osuchowski - Application of large cobalt-60 sources to gamma-radiography of metals	248
J. Liniecki, W. Czosnowska, Z. Pietrzak - The strontium-90 level in milk and bones of cattle and human-beings in Poland in 1918	266

ISSUE 6

L. Adamski, J. Boużyk, K. Józefowicz - Method of simultaneous determination of small sodium and potassium quantities by neutron activation	277
W. Długosz - Investigations of the flotation process by the method of radioactive tracers	287
T.S. Urbański - Some aspects of uranium solvent extraction with dodecylphosphoric acid	296
S. Chwaszczewski (S. Khvashchevski) - Impulsing of high frequency ion source	307
T. Radoszewski - The characteristics of scintillation counters	313
LABORATORY REPORTS	
Decontamination of surfaces contaminated with radioisotopes	321
Decontamination of radioisotope - contaminated used for protective clothing production	324
Protective clothes used for radio-decontamination operations	325

ISSUE 7-8

J. Aleksandrowicz - The second year of operation WWR-S reactor in Poland	327
W. Dąbek - Experimental reactor physics research	356
R. Żelazny - Applied reactor theory in the Institute of Nuclear Research	377
H. Rzewuski - The effect of reactor fast neutrons on semiconductors	396

Available From AEC-TR-4156-4166

CONTENTS (Contd)

NUKLEONIKA, Nos 1-12, Vol V, 1960

Z. Wilhelmi - Studies on the atomic nucleus structure with reactor "Ewa"	401
K. Blinowski - Neutron diffraction studies in solid state physics	414

ISSUE 9

P. Szulc - Automatic power-level control and automatic compensation for slow changes in reactivity in WWR-S reactor	427
A. Selecki - The effect of some hydrodynamic factors on the catalytic deuterium exchange reaction between hydrogen and water vapor	437
M. Taube - The influence of nitric acid concentration on extraction of plutonium (IV) - tetrabutylammonium nitrate complex into mixed solvent	453
Z. Bieguszewski, K. Żarnowiecki, A. Kostyrko - Analysis of water in primary coolant circuit of WWR-S reactor in Poland	461
M. Orman, A. Galanty - Development of nuclear-pure calcium production technology on a semi-commercial scale	470
M. Perec, F. Mucha, A. Dębiński - Experiments on the production of metallic uranium by reduction of uranium tetrafluoride with calcium metal	477
Z. Kachlicki, W. Suwalski, Z. Szwaja - Linear pulse amplifier	486
J. Andruszkiewicz, W. Kuźma, Z. Polacki - Plastic scintillators	490
J. Dobrowolski - Research on the extraction of uranium from post-leaching solutions of the uranium ores	496

ISSUE 10

W. Trzebiatowski, A. Jabłoński - Some phase relations of the BaO-UO ₂ -O ₂ system	499
W. Dąbek, A. Kazimierski, J. Topa - Gas ionisation neutron detectors	508
W. Chomka, J. Andruszkiewicz - Diffusion of tin, zinc and cobalt in single crystals and polycrystals of tin	521
K. Józefowicz, L. Adamski - Determination of impurities in the WWR-S reactor cooling water using γ -spectroscopy	525
T. Florkowski, L. Górski, L. Jurkiewicz - The use of gamma spectrometry for the analysis of radioactive fallouts in Cracow	535
K.E. Siekierska, A. Halpern, A. Siuda - The chemical effects of nuclear transformations of polyvalent atoms in organic liquids	540
I. Krawczyk - The separation of uranium and rare earths elements from ethylenediaminetetraacetic acid-solutions on ion-exchange resins	551
Z. Rozmej, S. Rybiński, Z. Uruski - Investigations of the sorption of uranium on peats	561
R. Gwóźdź, S. Siekierski - Separation of the various oxidation states of plutonium by reversed-phase partition chromatography	570
E. Weiranowski - The influence of tetrabutylammonium nitrate on extraction of cerium (IV) into nitromethane	575

CHRONICLE

The first Polish Symposium on the Use of Radioisotopes	579
--	-----

ISSUE 11

L. Łabao, W. Dąbek, W. Byasewski - Neutron sensitive boron coated thermopile	581
T. Rzeszut, Z. Weiss - Neutron spectrum temperature measurements by means of boron-glass filters	585

Available From AEC-Tr-4156-4166

CONTENTS (Contd)

NUKLEONIKA,
Nos 1-12, Vol V, 1960

K. Żarnowiecki, P. Szulc — Source of photoneutrons for the start-up of the WWR-S reactor	600
E.T. Józefowicz — Absolute measurements of beta activities in liquid scintillators	607
W. Kołos — On the ionization of molecular gases by beta particles.	612
W. Byszewski, J. Aleksandrowicz, L. Łabuz — Measurement of temperature of fuel element wall in WWR-S reactor	619
K. Wajs — An assessment of the error in linearized nuclear reactor equations	627
A. Kuszell, J. Mika — Thermal utilization factor in water-graphite moderated lattice	633
A. Kowalew — Some problems of activation during periodic reactor operation	646
T. Adamski, J. Zienkiewicz — Research on chlorination of low-grade uranium ore in presence of reducing agents	651
B. Osuchowski — The application of thulium 170 in radiographic inspection of metals	659

ISSUE 12

Z. Weiss — The distribution of neutron spectrum temperatures in an infinite plate of a heavy gas moderator	673
W. Mościcki, H. Renk — On the time-delay probability function of the pulses of CO ₂ + CS ₂ G-M counters	689
M. Taube — The p-Process as a source of bypassed nuclide synthesis	698
T.S. Urbański — The recovery of uranium from leaching liquors by solvent extraction with dodecylphosphoric acid	707
C. Deptuła, W. Korpak — Extraction of uranium from sulfate solutions by tri-n-oktylamine	719
E.T. Józefowicz — Absolute neutron density measurements in the WWR-S "Ewa" reactor at Świerk	727
S. Chwaszczewski — Energetic parameters of high frequency discharge in hydrogen	734

COMMUNICATIONS

Estimation of the rate of material transport in rotary kilns used for decomposition of calcium sulphate at the Sulphuric Acid Plant at Wizów	746
100-channel pulse amplitude analyzer	750
Rapid detection of uranium traces in the presence of iron and copper	755
The absolute methods of activity measurements of radioisotopes.	755

Available From AEC-Tr-4156-4166

CONTENTS

(Numbers in parentheses are original Russian page numbers.)

These Russian page numbers are also quoted at the head of each paper.

The Measurement of the Absolute Values of Oscillator Strengths in Atomic Spectra. I. Sodium	Yu. I. Ostrovskii and N. A. P. Ikin	1 (3)
The Effect of Vibration on Hyperfine Structure Constants	A. G. Makhanev	6 (12)
Quantum Effects in a Double Potential Well and Spectroscopy of the Hydrogen Bond	E. A. Pshenichnov and N. D. Sokoiov	8 (16)
The Theory of Line Intensities in the Spectrum of Scattered Light. I. The Quantum Model (Condon Approximation)	L. L. Krushinskii and P. P. Shorygin	12 (24)
Calculation of the Electro-Optical Parameters and Integrated Infrared Band Intensities of the Acetylene and Hydrocyanic Acid Molecules and Their Deuterium Substitution Products	L. M. Sverdlov	18 (35)
The Infrared Spectrum of Lithium Vapor	K. P. Vasilevskii and V. I. Baikov	21 (41)
Molecular Vibrations of Sulfur Compounds: SF_5Cl	K. Venkatesvarlu and K. Sathianandan	24 (46)
Molecular Vibrations of Sulfur Compounds: SF_6	K. Venkatesvarlu and K. Pillai	26 (51)
Infrared Absorption Spectrum and Symmetry of the Hexaethyldisiloxane Molecule	G. G. Kirei and M. P. Lisitsa	28 (55)
Transmission of Organic Solvents in the Far Infrared Region of the Spectrum	A. E. Stanevich and N. G. Yaroslavskii	31 (61)
Study of the Equilibria in Nonaqueous Solutions of Electrolytes by Means of Absorption Spectra III. Picric Acid and Sodium Picrate in Dioxane-Water and Benzene-Alcohol Mixtures	N. A. Izmailov and E. L. Gurevich	34 (67)
Spectral Investigation of the Aggregation of Dyes in Solvents of Low Polarity	Kh. L. Arvan and N. E. Zaitseva	36 (72)
Study of Electronic Phototransfer Reactions in the Solid Phase by EPR	N. N. Bubnov, V. V. Voevodskii, N. V. Fock, and B. N. Shelimov	40 (78)
Effect of Mechanical Treatment on the Absorption Spectrum of Cadmium Sulphide Crystals at Low Temperature	E. F. Gross, M. Bancel-Grillot, E. Grillot, and B. S. Rasbirin	43 (84)
Microscopic Studies of Electroluminescence in ZnS-Cu,Al Single Crystals	A. M. Bonch-Bruевич, Ya. E. Kariss, and V. A. Molchanov	45 (87)
The Phase of Electroluminescence Light Pulses as a Function of Excitation Voltage Parameters	A. N. Georgobiani and M. V. Fock	48 (93)
The Relation Between the Blue and Green Bands in the Electroluminescence of ZnS:Cu Phosphors	M. V. Fok	50 (98)
On the Luminescence of Charged Polycrystalline ZnS Layers Under the Action of DC Electric Fields	V. M. Fridkin	54 (105)
Photoelectric Method of Recording an Achromatic Interference Fringe	V. P. Koronkevich, G. A. Lenkova, N. S. Babenko, and A. I. Lokhmatov	58 (112)
Duration of the Flash of Tubular Flash Lamps	V. I. Vasiliev, M. S. Levchuk, and I. S. Marchak	61 (118)
SHORT COMMUNICATIONS		
On Nuclear Magnetic Resonance in Solids	B. N. Provotorov	63 (123)
Effect of Spectrographic Camera Objective Distortion on Spectral Line Curvature	I. V. Pensakha	65 (125)
ZnS:Ag Phosphor With Boron as a Coactivator	A. V. Lomov	66 (126)

Available From Optical Society of America

OPTIKA I SPEKTROSKOPIYA
Vol XI, No 1, 1961

CONTENTS (CONTD)

Dipole Moment of CH_3GeH_3 Molecule	A. I. Barchukov and Ya. N. Petrov	67 (129)
The Temperature Dependence of Infrared Absorption Lines	L. N. Ovander	68 (129)
The Raman Spectrum of Barium Titanate	Ya. S. Bobovich and E. V. Bursman	69 (131)

LETTERS TO THE EDITOR

On the Article by M. V. Akhmanova and G. E. Kurilchikova: Infrared Absorption Spectra of Hydroxy-fluoroboric Complexes of Potassium and Sodium	L. G. Ryss	72 (133)
Correction to the Article by P. N. Nurmukhametov, E. G. Popova, and N. S. Dokunikhin: Luminescence of Chrysene Solutions and Powders at 77°K		71 (134)

NOTICE

A New Journal in the Field of Optics	72
Printer's Corrections to Vol. 10	72

Available From Optical Society of America

CONTENTS

(Numbers in parentheses are original Russian page numbers.
These Russian page numbers are also quoted at the head of each paper.)

Calculation of $\overline{r^{-3}}(n, l)$ From the Fine Structure of Spectra	V. S. Korol'kov	73 (137)
Recurrence Formulas in the Calculations of Moments of Distributions of Transition Probabilities	O. I. Sil'd	75 (141)
Theory of Infrared Absorption Band Intensities of Complex Molecules Containing Several Identical Groups	L. A. Gribov	77 (146)
On the Theory of Line Intensities in Raman Spectra. II. The Quantum Model (Taking Account of Anharmonicity and Deviation from the Condon Approximation	L. L. Krushinskii and P. P. Shorygin	80 (151)
The Intensity of Raman Bands and the Character of the Chemical Bond	Ya. S. Bobovich	85 (161)
An Investigation of the Raman Indicatrix	I. I. Kondilenko, P. A. Korotkov, and V. L. Strizhevskii	89 (169)
Infrared Spectra of Phthalocyanines. I. The Effect of Crystalline Structure and of the Central Metallic Atom on the Phthalocyanine Molecule in the Solid State	A. N. Sidorov and I. P. Kotlyar	92 (175)
Frequencies and Intensities of the Absorption Bands of Monosubstituted Benzenes in the Region of the Stretching Vibrations of C-H _{arom.} Bonds	M. P. Lisitsa and I. N. Khalimonova	97 (185)
Shape of the Vibrational Absorption Band Contours of Liquid Chloroform and Bromoform	Yu. P. Tsyashchenko	101 (192)
The Effect of Temperature on the Infrared Spectra of Organo-Silicon Compounds. I. Crystalline Hexaethyldisiloxane	O. V. Vakulenko, G. G. Kirei, and M. P. Lisitsa	103 (196)
Evidence for Hydrogen Bonding in the Infrared Spectra of Crystalline Lithium Hydroxides	A. I. Stekhanov and E. A. Popova	107 (203)
The Effect of Foreign Gases on the Absorption of Infrared Radiation by Water Vapor	K. P. Vasilevskii	109 (207)
Certain Regularities in the Electroluminescence of ZnS:Cu:Al Phosphors with High Copper Content	A. M. Bonch-Bruевич	114 (216)
The Action of an Alternating Magnetic Field on the Propagation of Circularly Polarized Radiation in Matter	O. Ya. Savchenko	118 (223)
A Molecular Theory of Refraction of Light in Crystals	B. A. Sotskii	121 (229)
Optical Principle of Reversibility and its Application in the Theory of Thin-Layer Coatings	P. G. Kard	125 (237)
Theory of Light Reflection From a Thin Absorbing Film Deposited on a Metal	A. Vašiček	128 (242)
Accuracy of Determining Optical Constants of Absorbing Substance by Reflection in an Arrangement Using a Polarizer and Analyzer	A. P. Prishivalko	131 (248)
Precision Diffraction Gratings for Metrologic Purposes	G. N. Rassudova and F. M. Gerasimov	136 (259)
SHORT COMMUNICATIONS		
The Frequency Dependence of Raman Line Intensities	I. I. Kondilenko and V. L. Strizhevskii	137 (262)
Investigation of the Initial Stages in the Onset of Electroluminescence of a ZnS:Cu:Al Phosphor	P. S. Litvinova, L. P. Rabotkina, and P. E. Ramazanov	139 (264)
Microphotometric Determination of the Quantity of Absorbing Material in Inhomogeneous Objects	A. I. Sherudilo and V. Ya. Brodskii	140 (266)
Spectral Transmission and the Inverse Problem of Scattering Theory	K. S. Shifrin and V. F. Raskin	141 (268)

Available From Optical Society of America

CONTENTS (CONTD)

Duration of the Photo- and Radioluminescence of Anthracene and Naphthalene Crystals	M. D. Galanin and Z. A. Chizhikova	143 (271)
The "Selectivity" of the Thermal Emission of CaO and MgO	V. A. Sokolov, A. N. Gorban, and N. A. Nazimova	144 (273)
An Infrared Electronic Transition in the Er^{3+} Ion	G. S. Krinchik and M. V. Chetkin	145 (274)
On the Differentiation of Spectra	V. A. Zubov	146 (275)
Vector Coupling in X-Ray Spectra	A. M. Gutman	147 (277)
Dependence of the Association of Rhodamines on the Structure of Their Molecules and the Nature of the Solvent	L. V. Levshin and I. S. Lonskaya	148 (278)
The Krishnan Effect	D. K. Beridze and M. I. Shakhparonov	150 (282)
The Free Electron Model Applied to the Thiophene Molecule	T. N. Rekasheva	152 (284)
New Data on the Absorption Spectra of Thiazine Dye Crystals	N. M. Melankholin	153 (286)
The Effect of Nitrogen on Excited Mercury Atoms	I. Agyrbichanu, I. Kukurezyanu, V. Vasiliu, and I. Popesku	155 (289)
 BOOK REVIEWS		
Emission Analysis of Atomic Materials. By A. N. Zaidel', N. I. Kaliteevskii, L. V. Lipis, and M. P. Chaika	V. K. Prokof'ev	156 (291)
Infrared Methods, Principles, and Applications. By G. K. T. Conn and D. G. Avery	V. A. Nikitin	158 (293)
Infrared Radiation. By H. L. Hackforth	V. A. Nikitin	158 (294)
Optical Image Assessment Using Frequency Response Techniques	A. Ashcheklov	159 (295)
Tables of Optical Frequency Response for the Cases of Spherical Aberration and Coma		
Available From Optical Society of America		

CONTENTS

(Numbers in parentheses are original Russian page numbers.
These Russian page numbers are also quoted at the head of each paper.)

The Extended Fok Method in a Multiconfiguration Approximation for the Helium Atom	K. K. Eringis, P. Sh. Fridberg, and V. K. Shugurov	161 (297)
The Excitation of Atoms and Ions by Electron Impact. I. Calculation Ignoring Exchange	L. A. Vainshtein	163 (301)
A Direct Method of Measuring the Mean Lifetime of Excited Ionic Levels	Yu. M. Kagan and Ya. P. Koritskii	166 (308)
Time Resolved Emission Spectra of a Spark Discharge in Inert Gases in the Region 5000-10,000 Å	M. P. Vanyukov, V. R. Muratov, and I. A. Mukhitdinova	169 (312)
Restricted Motions in Transition Metal Complexes	I. B. Bersuker	172 (319)
Infrared Spectra of Phthalocyanines. II. Interaction of Sublimed Layers of Phthalocyanines With Gaseous CH_3COOH , HCl , and HBr	A. N. Sidorov and A. N. Terenin	175 (325)
Effect of Temperature on the Absorption of Monosubstituted Benzenes in the Region of the C-H Stretching Vibrations	M. P. Lisitsa and I. N. Khalimonova	179 (332)
Second-Order Raman Spectra in Some Liquids	Ya. S. Bobovich	184 (342)
Determination of Macroradical Conformations by Their Electron Paramagnetic Resonance (EPR) Spectra	I. S. Milevskaya and M. V. Vol'kenshtein	188 (349)
Light Scattering in Crystalline Polymers. II. Investigation of the Temperature Dependence of the Index of Refraction of the Crystalline and Amorphous Phases of Polychloroprene and the Determination of the Degree of Crystallization	O. N. Trapeznikova, G. E. Novikova, and S. V. Minakova	190 (353)
On the Influence of Crystal Structure on the Vibrational Spectrum of the Hydrogen Bond	A. I. Stekhanov and Z. A. Gabrichidze	193 (359)
Notes on the Concepts of "Yield," "Mean Lifetime," and "Decay Law" and Their use in Luminescence	V. L. Levshin	195 (362)
Reabsorption in Crystals of a Finite Thickness. II	V. M. Agranovich and Yu. B. Konobeev	199 (369)
Some Concentration Effects in Plastic Scintillators	L. S. Kukushkin and L. L. Nagornaya	206 (385)
Luminescence of p-Terphenyl in a Mixture of Toluene and Carbon Tetrachloride	S. F. Kilin, K. A. Kovyrzina, and I. M. Rozman	209 (390)
The Yellow Luminescence of Zinc Oxide	Ya. M. Zelikin and A. P. Zhukovskii	212 (397)
Interference of Luminescent Emission From an Evaporated Phosphor	N. A. Vlasenko, V. K. Miloslavskii, and I. N. Shklyarevskii	216 (403)
Study of the Emissive Power of Certain High-Melting Compounds in the Infrared Region	G. V. Samsonov and V. V. Pen'kovskii	219 (410)
SHORT COMMUNICATIONS		
On the Mechanism of the Weakening of the CN Bands (Violet System) in an Arc	V. S. Rossikhin and I. L. Tsikora	223 (415)
Single Slit, Three-Beam Interferometry	V. G. Khomazyuk	224 (417)
Luminescence of Ionic Forms of Uranin in Liquid and Solid Solutions	V. S. Adamov and L. T. Kantardzhyan	226 (419)
Electro-X-Ray Luminescence of KBr Crystals	A. S. Andrianov and M. L. Kats	228 (422)
Results of Spectrochemical Analysis With a Combination Electric Discharge as a Light Source	G. D. Cristescu and M. Giurgea	229 (424)
On the Electroluminescence Excitation Process in Zinc Sulfide	A. N. Georgobiani	231 (426)
Hydrogen Bonding of Ketones with Chloroform as Revealed in the Band of the Carbonyl Group Stretching Vibrations	G. S. Denisov	232 (428)
The Redistribution of Electrons Among the Localized Levels of Silver Halide Phosphors and the Stimulated Action of the Exciting Light	V. M. Belous	234 (431)

Available From Optical Society of America

CONTENTS (CONTD)

BOOK REVIEW

Die Terpene. Sammlung der Spektren und physikalischen Konstanten. Teil I. Sesquiterpene. By J. Pliva, M. Horak, V. Herout, and F. Šorm	G. V. Pigulevskii V. Aleksanyan	236 (434)
The 15th Rozhdestvenskii Lecture		237 (436)
The 69th Birthday of Boris Yakovlevich Sveshnikov		238 (437)
S. E. Frish, Honored Worker in Science and Technology of the RSFSR		238 (438)
On the Article—The Absorption Spectrum of Liquid and Solid Oxygen Under Pressure (12,600-3000 Å), by V. Dianov-Klovov	V. Dianov-Klovov	239 (439)
Erratum		
.....	P. Feofilov	239 (439)
Errata		
.....	A. I. Lazarev and T. F. Temisheva	239 (439)
Available From Optical Society of America		

CONTENTS

(Numbers in parentheses are original Russian page numbers.
These Russian page numbers are also quoted at the head of each paper.)

CONTENTS (Issue 5)

Measurement of the Absolute Values of Oscillator Strengths in Atomic Spectra. II. Resonance Lines of Atoms of Group II.	Yu. I. Ostrovskii and N. P. Penkin	307	(565)
Determination of the Effective Cross Section for Collisions of Excited Barium Ions with Argon Atoms	F. S. Faizullov and N. N. Sobolev	310	(571)
Vibrational Spectra of Aromatic Compounds. XI. Calculation of Intensities in the Infrared Spectrum of Toluene.	B. N. Snegirev	313	(577)
Vibrational Spectra of Silicates. III. Infrared Spectra of the Pyroxenoids and Other Chain Metasilicates	A. N. Lazarev and T. F. Tenisheva	316	(584)
Vibrational Spectra and Structure of Ene-Yne Silico-Hydrocarbons	T. V. Yakovleva, A. A. Petrov, and M. D. Standnichuk	318	(588)
Depolarization of Raman Lines of Multiple Bonds of Vinylacetylenic Hydrocarbons as Related to their Structures	T. V. Yakovleva and A. A. Petrov	320	(594)
The Luminescence of Alcoholic Solutions of Benzene at -196°C	T. V. Ivanova and B. Ya. Sveshnikov	322	(598)
The Effect of Hydrogen Bonds on the Luminescence of Oxy- and Amino- Azo Compounds	R. N. Nurmukhametov, D. N. Shigorin, Yu. I. Kozlov, and V. A. Puchkov	327	(606)
On Quenching of Fluorescence in Solutions at Liquid Air Temperatures by Iodides	L. A. Kiyanskaya and B. Ya. Sveshnikov	330	(613)
Phosphorescence of Organic Molecules with Two Metastable Levels.	M. E. Khalupovskii	332	(617)
A Study of the Kinetics of the Sensitized Emission of Radiation Due to Certain Additions in Naphthalene Crystals	A. M. Bonch-Bruevich, B. P. Kovalev, L. M. Belyaev, and G. S. Belikova	335	(623)
Influence of Excited Light Birefringence on the Luminescence Polarization in Molecular Crystals	N. D. Zhevandrov, V. I. Gribkov, and I. D. Khan-Magometova	338	(629)
Photoluminescence of Solutions and Crystals of Gadolinium Salts.	A. N. Zaidel' and G. S. Lazeeva	341	(636)
Intracrystalline Reactions in Crystalline Phosphors and the Structure of Luminescence Centers	V. V. Osiko	345	(642)
Location of Energy Levels in ZnS-CdS Phosphors	L. Drozd and V. L. Levshin	348	(648)
Separating the Selenium Band in the Spectra of Sulfide-Selenide Phosphors	A. A. Bundel', Z. I. Guretskaya, and M. N. Noskova	352	(656)
Optical Properties of Beryllium in the Infrared Spectral Region	I. N. Shklyarevskii and R. G. Yarovaya	355	(661)
The Sensitivity Threshold for Optical Absorption Analysis of the Composition of Liquid or Gaseous Mixtures.	A. O. Sall	358	(667)
Theory of the Selectivity of Optical Absorption Analyzers for the Composition of Gaseous or Liquid Mixtures	A. O. Sall	361	(672)
SHORT COMMUNICATIONS			
An Oscillographic Method of Studying Optical Excitation Functions.	I. P. Zapesochnyi and A. I. Dashchenko	365	(679)
Nonselective Optico-Acoustic Radiation Detectors with Electrodynamical Microphone	N. A. Pankratov	366	(681)
A Crossed-Dispersion Spectrograph Built on a New Optical Design	K. I. Tarasov	368	(683)
Relation Between the Frequencies of N-H Symmetric and Antisymmetric Vibrations in the Molecules of Primary Amines	Yu. S. Varshavskii	369	(686)
Comparison of Spectral Intensities of the Hydrogen and Deuterium Radiation.	S. I. Levikov and L. P. Shishatskaya	371	(689)

Available From Optical Society of America

CONTENTS (CONTD)

Calculation of the C=O Stretching Vibration Frequency for Cis- and Gauche Isomers of Molecules of the Type $\text{ClCH}_2-\text{C}(\text{O})\text{R}$	V. G. Boitsov and Yu. Ya. Gotlib	372 (691)
Exciton Relaxation Times in Molecular Crystals	A. S. Selivanenko	374 (694)
Anomalous Ratio of the HFS Component Intensities of Indium Lines	Yu. I. Turkin and M. P. Chaiko	375 (695)
The Journal of Quantitative Spectroscopy and Radiative Transfer		375 (696)

CONTENTS (Issue 6)

Spectroscopic Investigation of a High Frequency Discharge in Neon	O. P. Bochkova, L. P. Razumovskaya, and S. E. Frish	376 (697)
The Use of the Metal Molecular Model in the Calculation of the Influence of Molecular Vibrations on Forbidden Transitions	A. M. Meleshina	381 (706)
Calculation of the Hyperfine Structure of Molecular Rotational Spectra	K. K. Svidzinskii	385 (713)
Vibrational Spectra of the B_2O_3 and B_2S_3 Molecules	V. M. Tatevskii, G. S. Koptev, and A. A. Mal'tsev	391 (724)
Vibrational Spectra of Vinyl Alkyl Sulfides—Theoretical Analysis	E. M. Popov and G. I. Kagan	394 (730)
Interpretation of the Vibrational Spectra of Naphthalene and Some of Its Deuterium Substitution Products	G. V. Peregudov	397 (735)
Optical Properties of Crystals with Impurities. I. Absorption and Dispersion Characteristics of Anthracene Impurity in a 9,10-Dihydroanthracene Crystal	M. S. Brodin and Ya. O. Dovgii	400 (742)
Phase Relations for the p- and s-Components of a Reflected Light Wave Determined by the Fresnel Equations	N. Ya. Gorban' and I. A. Shaikovich	404 (750)
A Study of Scattering of Light in Objects Subject to Fading	A. P. Ivanov	407 (754)
Theory of the Selectivity of Optical Absorption Analyzers for the Composition of Gaseous or Liquid Mixtures. II	A. O. Sall'	409 (759)
Calculation of Cathode Lens Aberrations	P. P. Kas'yankov	413 (765)

SHORT COMMUNICATIONS

Determining the Refractive Indices of Crystals Using a Jamin Interferometer	M. S. Soskin	415 (768)
Determination of the Electron Concentration in the Conduction Band of Thin Aluminum Films from Their Transmission Cutoff in the Vacuum Ultraviolet Region	M. D. Borisov, I. I. Demidenko, and V. G. Padalka	416 (769)
On the Relative Vibrational Transition Probabilities in the $^4\Delta - ^2\Delta$ Band System of the VO Molecule	F. S. Ortenberg	417 (772)
A Computational Formula for Raman Spectral Intensities of Polyatomic Molecules	L. M. Sverdlov	419 (774)
Effective Cross Sections for Excitation of Certain Spectral Lines of Sodium	L. M. Volkova	420 (775)
Spectroscopic Observation of Rotation of the Positive Column of a Discharge in a Magnetic Field	V. M. Zakharova, Yu. M. Kagan, and V. I. Perel'	421 (777)
A Telecentric Optical System for Illuminating the Entrance Slit of a Spectral Instrument	V. R. Muratov	423 (779)
An Incandescent Lamp with a Radiometric Chopper	M. L. Veingerov, A. A. Sivkov, and Byan' Nan Khua	423 (780)
Errata in Volume VI		412 (786)
Letter to the Editor		412 (789)
Author List, Vol. XI		426 (782)
Contents List, Vol. XI		428 (790)
Announcement		432 (803)
Book Review		432 (804)

NOTICE TO READERS

The November and December issues are published under one cover, because the November Russian Original was late in the mails.
Available From Optical Society of America

CONTENTS

(Numbers in parentheses are original Russian page numbers.)

These Russian page numbers are also quoted at the head of each paper.)

Calculation of the Lithium Atom in the Adiabatic Approximation and Computation of Its Nuclear Magnetic Moment	M. G. Veselov and I. B. Bettsaler	167 (297)
Relative Oscillator Strengths in the Spectrum of the Cobalt Ion Co II	P. F. Gruzdev	169 (302)
The Broadening of Spectral Lines in a Strongly Ionized Plasma	M. A. Mazing and N. A. Vrublevskaya	172 (308)
An Approximate Method of Determining the Integrated Intensity and the Line Width in Rotation-Vibration Absorption Bands of Gases	P. I. Bresler	175 (313)
Vibrational Spectra of Ferrocenes. I. Calculation of the Normal Vibrations of the Cyclopentadienyl Ring of Ferrocene	L. S. Mayants, B. V. Lokshin, and G. B. Shaltuper	177 (317)
Calculation and Interpretation of Vibrational Spectra of Naphthenes. V. Intensities and Depolarizations in the Raman Spectra of Cyclopentane and Deuterocyclopentane	N. I. Prokof'eva and L. M. Sverdiolov	180 (324)
Vibrational Spectra of Aromatic Compounds. XVI. Characteristic Vibrations of 1,2,3-Substituted Benzenes	A. M. Bogomolov	183 (331)
Calculation of the Normal Vibrations of the Dimethyldibromo- and Trimethylbromosilane Molecules	I. F. Kovalev	185 (335)
Line Spectra of Polycyclic Aromatic Hydrocarbons in Frozen Crystalline Solutions. II. Singlet-Singlet and Triplet-Singlet Spectra of 1,2-Benzpyrene at 77 and 4°K	E. V. Shpol'skii, L. A. Klimova, and R. I. Personov	188 (341)
On the Influence of Ions on the Absorption Band of the O—H Bond	I. S. Perelygin	194 (353)
Infrared Absorption Spectra of Nitroanilines in the Region of the NH ₂ Stretching Vibrations	I. I. Shman-ko	196 (357)
Infrared Spectra of Ionic Solutions of Acetonitrile	I. S. Perelygin	198 (360)
The Temperature Dependence of the Infrared Absorption Bands of Gaseous 1,3-Butadiene	E. B. Reznikova, V. I. Tulin, and V. M. Tatevskii	200 (364)
Temperature Dependence of the Band Width of Infrared Absorption Spectra	A. V. Rakov	203 (369)
Infrared Spectra of Chlorophyll and Its Analogues. II. Isotopic Exchange Between Chlorophyll and Pheophytin Molecules and Heavy Water Molecules	A. N. Sidorov	206 (374)
An Infrared Spectroscopic Investigation of the Keto-Enol Tautomerism of Chlorophyll	A. V. Karyakin and A. K. Chibisov	209 (379)
On the Temperature Quenching of the β -Phosphorescence of Organic Luminors	A. V. Aristov and B. Ya. Sveshnikov	212 (383)
Effects of Reabsorption on the Luminescence Decay Law of Anthracene Crystal	M. D. Galanin, Yu. V. Konobeev, and Z. A. Chizhikova	214 (386)
On the Fluorescence of Intracomplex Compounds of Cations	E. A. Bozhevol'nov and G. V. Zheleznyakova	216 (390)
Study of the Association of Rhodamine-6G Molecules by Means of Their Electronic and Vibrational Absorption Spectra	L. A. Ignat'eva, L. V. Levshin, T. D. Osipova, and Yu. M. Polukhin	219 (396)
Luminescence Kinetics of Chromium Luminors. IV. Ruby, Part 2. Interpretation of the Relaxation Spectrum; Temperature Variation of the Relaxation Time and the Intensity of the Luminescence	N. A. Tolstoi and Liu Shun'-Fu	224 (405)
On the Effect of Thermal Treatment on the Formation of the Trapping Level Spectrum in Silver Chloride	V. M. Belous	229 (412)

Available From Optical Society of America

CONTENTS (CONTD)

The Luminescence of Self-Activated, Sublimated, Zinc Sulfide Phosphor	E. Ya. Arapova	231 (416)
Coloring of Photosensitive Glasses by X-Radiation	V. A. Borgman and V. G. Chistoserdov	233 (421)
The Optical Properties and Structure of Zirconium Dioxide Films	A. I. Sviridova	236 (425)
The Solution of the Radiation-Transfer Equation for the Case When the Indicatrix of Scattering Greatly Differs From the Spherical One. I	L. M. Romanova	238 (429)
Calculation of a Simple Lens With a Single Reflecting Surface	D. V. Gavrilov	242 (436)
New Data on Spectral Characteristics of Impulsive Lamps	V. P. Kirsanov, I. S. Marshak, and M. I. Epshtein	244 (442)
Correction of X-Ray Spectra for Symmetric Distortion	V. P. Sachenko and I. Ya. Nikiforov	247 (447)
 SHORT COMMUNICATIONS		
Relative Oscillator Strengths in the Nickel Ion Spectrum Ni II	P. F. Gruzdev	249 (451)
Optical Alignment of Rubidium Isotopes	E. B. Aleksandrov	250 (453)
The Migration and Transfer of Energy in a Two-Component Mixture	V. S. Rubanov	251 (454)
Measurement of the Color Temperature of Light Sources by Using the Relative Intensities of Spectral Lines	V. I. Gladushchak and E. Ya. Shreider	253 (457)
On the Raman Scattering Spectrum of Barium Orthotitanate	Ya. S. Bobovich	254 (459)

Available From Optical Society of America

CONTENTS

	Page
Yu. M. Kushnir: Electron Microscopy (A State-of-the-Art Survey: Construction of Instruments, Some Areas of Application and Related Problems of Electron Optics)	709
B. D. Sergiyevskii: Response of Receiver with Square-Law Detector to Waves Modulated by Phase or Frequency Fluctuations	741
A. N. Shusterovich: Approximate Solution of the Differential Equation of an APC Circuit for the Steady-State Condition	752
Ye. I. Nefedov: Design of Tapered Dielectric Wedges in a Rectangular Waveguide	759
G. B. Bogdanov: Thermal Effects in Ferrites During Ferromagnetic Resonance Absorption of UHF Power	764
Ya. L. Shamfarov: Method of Measuring the Phase Velocity of Slow Waves	769
G. M. Gershteyn, V. V. Lalov and V. A. Pavyuchuk: Simulation of the Spatial-Harmonic Spectrum of the High-Frequency Field of Periodic Structures	772
I. K. Vikulov and A. S. Tager: Interaction of Two-Velocity Electron Beams with the High-Frequency Field of a Delay Line	782
M. N. Devyatkov, A. I. Kostiyenko and Ye. Ya. Myasoyedov: Traveling Wave Tubes as Microwave Detectors and Mixers	794
Ya. L. Shamfarov: The Reflex Klystron as a VHF Waveguide Amplitude and Phase Modulator	799
G. G. Monosov: Electron Trajectories in Magnetron Devices	806
V. V. Nikitin and A. N. Orayevskiy: Investigation of the Frequency Tuning of a Molecular Oscillator by Modulating the Emission Line with the Aid of an External Magnetic Field	814
V. A. Atsarkin, M. E. Zhabotinskiy and A. V. Frantesson: Obtaining Maximum Sensitivity in a Radio Spectroscope for the Observation of Electron Paramagnetic Resonance	820
V. B. Shteinshteyger, G. S. Mizezhnikov and O. A. Afanas'yev: Efficiency of Various Pumping Systems in Ruby Traveling - Wave Masers	828
V. S. Golubev and V. L. Granovskiy: Experimental Investigation of Diffusion Waves of Charged Particles in a Gas Contained in a Magnetic Field	833
A. A. Arshinov and A. K. Musin: Equilibrium Ionization in Dispersed Systems	842
V. I. Makukha: Field Emission from Iridium	851
BRIEF COMMUNICATIONS	
Ye. I. Kulikov: Uncertainty in Evaluating the Parameters of a Signal of Arbitrary Initial Phase During Optimal Reception in the Presence of Normal Noise	855
Ye. V. Baklanov: On the Theory of Optimal Linear Antennas	857
V. V. Nikol'skiy: Bilateral Approach to the Evaluation of the Natural Frequencies of Cavity Resonators	859
G. F. Filimonov and A. V. Lazarev: Steady-State Operation of a Cylindrical Magnetron	862
LETTERS TO THE EDITOR	
Yu. S. Lezin: Concerning Noise Storage in Delayed Feedback Devices	867
V. S. Zuyev and I. V. Cheremiskin: Maser Radiation Line Width	869

Available From American Institute of Electrical Engineers

TRANSACTIONS

SAOPSTENJA

Vol. IX, No. 22, 1962

TABLE OF CONTENTS

	Page
1. MARJANOVIC, D.: DETERMINATION OF MAXIMUM DISCHARGE RUN-OFF CONDITIONS IN YUGOSLAVIA	7
2. JOSIMOVIC, D.: THE FUNCTION OF THE STORAGE IN NIKSICKO POLJE	19
3. BORELI, M., M. VUKOVIC, and M. MILOJEVIC, THE RECHARGE OF AQUIFERS FROM RIVER WATERS	29
4. BORELI, M. and M. VUKOVIC, : FILTRATION TOWARDS A DRAIN SYSTEM	39
5. MESINGER, F.: ON THE THORNTHWAITE-HOLZMANN FORMULA FOR EVAPORATION COMPUTATION	51
6. RISTIVOJEVIC, M.: ATTEMPT AT DEFINING THE HYDROGRAPHIC NERETVA RIVER BASIN BASED ON A DETAILED HYDROGRAPHIC STUDY OF ITS TRIBUTARIES	57
7. COLIC, B.: GEOTECHNICAL INVESTIGATIONS ON THE PROFILE OF DUBRAVICA DAM	77

Available From OTS 62-19470/1
PL-480

Published by

THE IRON AND STEEL INSTITUTE

by arrangement with the Department of Scientific and Industrial Research

661 Ninetieth anniversary of the Donetsk works

IRONMAKING

- 664 Gas composition in the blast-furnace hearth when operating on natural gas and ordinary blast *Z. I. Nekrasov and F. N. Moskalina*
667 Pressure of charge and gas in the blast-furnace *N. N. Babarykin*
672 A blast-furnace charge with its fines partially removed before charging into the furnace *A. A. Fofanov et al.*
675 Hydraulic-impact and hydraulic-runner methods for granulating blast-furnace slags *V. F. Krylov et al.*
678 Conference on the design of existing blast-furnaces with a volume of 2000 m³ *N. K. Leonidov and E. V. Kochinev*
680 Research at works laboratories and institutes

STEELMAKING

- 681 Ingot moulds without hot tops used for killed mild steel *D. A. Litvinenko and V. I. Yakushin*
684 Performance of 500 ton open-hearth furnaces in two plants *V. A. Romenets and Yu. E. Funtov*
686 Hydrogen content of molten steel *P. V. Sklyuev*
688 Effect of complex deoxidizers on non-metallic inclusions in low-carbon steel *M. I. Tsekanskii*
689 Book review: 'The modern open-hearth process'
693 Research at works laboratories and institutes
694 Operation of oxygen top blown converters abroad (Abstract)*

ELECTROMETALLURGY

- 694 Metal blown with inert gases in a vacuum ladle *N. M. Chuiko et al.*
697 Book review: 'Rational conditions in arc steelmelting furnaces'
698 Research at works laboratories and institutes

FERROALLOYS

- 700 Effect of temperature on the degree of removal of nickel from manganese sulphate solutions *D. S. Chikashua and O. I. Voitenko*
701 Research at works laboratories and institutes

ROLLING AND TUBE PRODUCTION

- 703 Experience in the operation of semicontinuous hot strip mill rolls *V. K. Fridrikhsen and Z. N. Sokolova*
707 Raising the durability of skelp mill steel rolls *V. A. Sokolov and G. G. Levina*
709 Reasons for the development of defects in transverse helical rolling of round periodic sections *I. I. Kazanskaya et al.*
711 Special features of the design and calculation of the cold tube rolling machine feed reductor mechanism *M. I. Grinshpun*
714 Cold drawing tubes with improved lubrication *V. L. Kulmogorov and K. P. Selishchev*
716 Book review: 'Hot rolling sheets on continuous and semicontinuous mills'
718 Research at works laboratories and institutes

METAL WORKING AND HEAT TREATMENT

- 719 Bright decarburizing annealing of coils of transformer steel in bell type furnaces *K. V. Dneprenko and V. G. Borisenko*
722 Contact strength of steels for railway rails *S. I. Mukukhin et al.*
725 Inclusions in U10A steel with varying ductilities at high temperatures *M. I. Vinograd and G. P. Gramova*
728 Effect of small additions on the technological and mechanical properties of E1607 alloy *B. E. Lyubinskii*
730 Research at works laboratories and institutes

ECONOMICS AND ORGANIZATION

- 732 More effective use of fuel and power resources in the iron and steel industry *M. N. Seredenko et al.*
734 Some index figures in the plan for tube shops and tubeworks *N. I. Leibovich*
735 Research at works laboratories and institutes

HEAT TECHNOLOGY

- 736 Complex automation of the open-hearth furnace cycle *M. M. Kotrovskii and G. Yu. Geller*
739 Research at works laboratories and institutes

GENERAL

- 740 Research at works laboratories and institutes
741 The international system of units (Abstract)*

ANNIVERSARY

- 741 Aleksandr Mikhailovich Samarin

* Not translated, source indicated

Available From British Iron and Steel Institute

CONTENTS

	PAGE	
(269)	133	The chemistry of depsipeptides M.M.SHEMYAKIN
(285)	140	Organophosphorus compounds obtained from α -oxides E.L.GEFTER and M.I.KABACHNIK
(322)	160	Effect of anions on the kinetics of the dissolution of metals Ya.M.KOLOTYRKIN
(336)	167	Methods for increasing the resistance of polymers to low- -temperatures V.V.CHERNAYA and R. L.VOL'CHENKO
(351)	175	Use of infra-red spectroscopy to investigate adsorption and the structure of surface chemical compounds A.V.KISELEV and V.I.LYGIN

(385)	-	Optical rotatory dispersion W.KLYNE Translated into Russian from J.Roy.Inst.Chem., 50 (1960)
-------	---	--

Available From The Chemical Society

Russian Mathematical Surveys

CONTENTS

M. M. Vainberg and V. A. Trenogin	The methods of Lyapunov and Schmidt in the theory of non-linear equations and their further development	1
A. M. Zverkin, G. A. Kamenskii, S. B. Norkin and L. E. El'sgol'ts	Differential equations with a perturbed argument	61
Yu. V. Linnik and A. G. Postnikov	Ivan Matveevich Vinogradov	147

Available From Cleaver-Hume Press

VOYENNIYY VESTNIK
No 9, 1962
TABLE OF CONTENTS

	<u>Page</u>
New Outstanding Victory in Space	1
Vital Tasks for Tank Personnel, by Mar Arm P. Poluboyarov	3
Communists at the Head of Competition, by Gen Maj A. Kushnir	8
No Limit to Mastery, by Col V. Smirnov	12
<u>Military Herald</u> in 1963	14
Military Operations in the Mountains, by Col Gen S. Shtemenko	16
Tank Attack, by Col A. Timoshenko	23
Artillery in Desert and Steppe, by Col I. Gapon	27
Army Engineers in the Mountains, by Lt Col P. Chepurayev	30
Mountain Maneuvers, by Maj A. Kislyakov	33
**PHOTOS.....	34, 35, 36
Formation of a Scientific Outlook During the Course of Combat Training, by Maj V. Pirozhkov	40
Exercises in Forest-Swampy Terrain, by Guard Col S. Vikarchuk and Guard Lt Col V. Pshenitsyn	47
Field Repair Shop, by Engr Lt Col Ya. Gorpenko	53
Teaching Officer Candidates Independence, by Col S. Makarov	56
Available From ACSI I-0424-I	
ID 2191530	

Table of Contents (Continued)Page

New Problems and Obsolete Methods in Training, by Lt Col V. Tomashevskiy and Col F. Kalinichenko	60
Polish Engineers Build Ferry, by Cpt V. Makovetskiy	65
Firing at Targets on Water, by Col P. Moravskiy and Capt A. Boyarintsev ..	67
Gyrocompass Azimuth, by Col N. Stroynov	69
Indices of Firing Effectiveness, by Col A. Chervonnyy and Engr Lt Col M. Korenev	72
Under Conditions of Radiological Contamination, by Maj L. Obukhov	75
Methods of Guiding Antiaircraft Missiles to the Target, by Engr Col M. Artamonov	78
Traversing Obstacles in the Mountains, by Col N. Shitov and Lt. Col P. Aleksandrov	83
Scouting a Wide-River Ferry Crossing, by L. Khomyakov	87
Features of Communications in the Mountains, by Col B. Bukh and Maj A. Platonov	89
Flawless Operation of Communications Equipment, by Lt Col G. Bodelan	92
Firing Accuracy in the Mountains, by Lt Col V. Saltykov and Lt Col A. Gorbunov	95
Improved Tank Weapons Use, by Guard Lt Col F. Kulakov	100
Methods of Company Machine Gun Firing, by Lt Col M. Akimtsev	103
Direct Aim Firing, by Lt Col V. Titarenko	105
Firing From Machine Gun With Brief Stop	108
Model Ruler for Indicating Traces of Radioactive Contamination, by Cpt V. Shcherbakov	110

Available From ACSI I-0424-I

ID 2191530

CONTENTS

	PAGE	RUSS. PAGE
Coulometric Titration of Para-Quinonedioxime with Electrogenerated Trivalent Titanium. S. L. Dobychin and A. P. Zozulya	147	148
Elimination of the Effect of the Composition of the Material on the Results of Quantitative Spectrographic Analysis. G. I. Kibisov and N. P. Antropov	154	155
The Effect of Sodium, Nickel, and Magnesium on the Relative Intensity of the Analytical Line Pairs Mn-Fe, Mn-Cu, and Cr-Cu. G. V. Ovechkin	158	159
Quantitative Chemical Analysis Using Paper Determination of Microamounts of Iodide, Bromide, and Chloride Ions in Mixtures and in Natural Water. N. Gancev and K. Koev	165	166
Determination of Impurities in Heat Resistant Alloys Based on Nickel, Cobalt, Iron, and Chromium. Z. S. Mukhina, I. A. Zhemchuzhnaya, and G. S. Kotova	169	170
Spectrographic Determination of Indium, Thallium, and Tellurium in the Solutions Obtained During Extraction of These Metals from the Intermediate Products of Lead- Zinc Production. I. G. Yudelevich and I. R. Shelpakova	173	174
Direct Complexometric Titration of Gallium in the Presence of 7-(1-Naphthylazo)-8- Hydroxyquinoline-5-Sulfonic Acid as an Indicator. A. I. Busev, L. L. Talipova, and L. M. Skrebkova	179	180
A Study of Some of the Physicochemical Characteristics of Compounds of Indium and Gallium with Flavones. E. P. Shkrobot	185	186
Quantitative Determination of Thallium as Dichromate Communication 3. A Study of the Effect of Alkali Metals and Ammonium on Precipitation of Thallium Dichromate. N. I. Bashilova	189	190
Quantitative Spectrographic Determination of Small Amounts of Germanium, Indium, and Thallium in Silicate Rocks. L. I. Pavlenko and Z. M. Davydova	197	199
Separation of Rare Earth Elements from Materials Containing Iron, Calcium, and Phosphate. F. V. Zaikovskii, E. V. Furtova, and G. F. Sedova	200	202
Photometric Determination of Titanium in Nickel- and Iron-Based Refractory Alloys by Means of Diantipyrylmethane. L. Ya. Polyak	205	206
A Study of the Interaction of Sulfarsazen with Lead Ions. A. M. Lukin, Yu. I. Vainshtein, N. M. Dyatlova, and G. S. Petrova	211	212
Successive Spectrophotometric Titration of Thorium and Total Rare Earths. V. M. Peshkova, M. I. Gromova, and N. M. Aleksandrova	216	218
Gravimetric Determination of Uranium by Precipitation with Hexamminecobaltinitrate. A. V. Vinogradov and R. M. Apirina	220	222
Elemental Organic Analysis by the "Wet Oxidation" Method Communication 5. Deter- mination of Nitrogen in Pyridine Compounds. A. P. Terent'ev and B. M. Luskina	226	227
Polarographic Determination of Picric Acid in the Presence of Nitrophenols, Nitrobenzenes, and Nitrocyclohexane Analysis of Cyclohexane Nitration Products. Ya. I. Turyan and P. M. Zaitsev	230	231

Available From Consultants Bureau

CONTENTS (continued)

	PAGE	RUSS. PAGE
Photometric Determination of 2,4-Dichlorophenoxyacetic Acid with Butyl Rhodamine. V. I. Kuznetsov and M. I. Gagarina	234	235
Infrared Determination of Tri-N-Butyl Phosphate and Diisoamyl Methyl Phosphonate in Solution in Normal Paraffinic Hydrocarbons and in Dearomatized Kerosene. Yu. A. Pentin, E. G. Teterin, and N. N. Shesterikov	238	239
A Photometric Method for Determination of Furfurol in Aqueous and Chlorobenzene Solutions. T. I. Tikhonova, L. Ya. Gertsberg, and P. V. Zubritskii	243	245
 BRIEF COMMUNICATIONS		
A New, Selective Catalytic Reaction for Detection of Copper Ions. M. Ya. Shapiro ... The Decomposition of Lanthanum Fluoride by Oxalic Acid and Sodium Hydroxide. E. N. Deichman and I. V. Tananaev	246	248
Determination of Germanium and Its Dioxide in Air. M. D. Babina	248	250
Chromatographic Separation of Small Amounts of Uranium from Soil by Means of EDE-10 P Anion Exchange Resin. V. D. Zagrai and V. A. Vlasov	250	252
Determination of Small Amounts of Manganese on the Basis of the Catalytic Reaction of Permanganate with Oxalate Ions. M. P. Babkin	252	254
Triethylbenzylammonium Chloride as a Polarographic Supporting Electrolyte for the Negative Potential Range. G. S. Supin	255	256
Chromatographic Analysis of Commercial Heptachlor. S. M. Shogam, I. A. Efimenko, N. M. Nikiforova, and E. L. Mel'nichenko	258	258
Extraction Terminology. I. P. Alimarin and Yu. A. Zolotov	260	260
	263	263
 CRITICISM AND BIBLIOGRAPHY		
Quantitative Inorganic Analysis. R. Belcher and A. J. Nutten	267	267
 CHRONICLE		
Conference on Extraction in Analytical Chemistry I. V. Seryakova	270	269
Oscillographic Polarograph OP-1-61	274	272

Available From Consultants Bureau

CONTENTS

	Page	Russian Reference
Production of Light Nuclei by 660-MeV Proton Bombardment of Heavy Elements A. K. Lavrukina, L. P. Moskaleva, V. V. Malyshev, and L. M. Satarova	1	43, 3
Stripping and Elastic Scattering of Deuterons by C^{12} K. I. Zherbtsova, V. F. Litvin, and Yu. A. Nemilov	5	43, 8
An Investigation of ${}_{80}Th^{232}({}_{10}Ne^{22}, 4n){}_{100}Fm^{250}$ E. D. Donets, V. A. Karnaukhov, G. Kumpf, B. A. Gvozdev, and Yu. T. Chuburkov	7	43, 1
Spatial Amplification of Variable Magnetic Fields During Magnetic-Sound Resonance in a Plasma I. A. Kovan, B. I. Patrushev, V. D. Rusanov, G. N. Tillnin, and D. A. Frank-Kamenetskiĭ	10	43, 16
$\pi\pi$ -Interaction Data Derived from the π -Meson Production Reaction in πp Collisions. II. ρ^0 -Meson Production Ya. Ya. Shalamov and A. F. Grashin	14	43, 21
The Effect of Cross Relaxation on Population Inversion in Ruby D. N. Klyshko, V. S. Tumanov, and L. A. Ushakova	17	43, 25
Magnetostriction of Tb and Ho S. A. Nikitin	21	43, 31
Scattering of 200 MeV Neutrons by Protons Yu. M. Kazarinov and Yu. N. Smirnov	24	43, 35
Photodisintegration of Oxygen. I. A. N. Gorbunov and V. A. Osipova	27	43, 40
An Experimental Investigation of the Effect of an Intermediate Medium on Gravitational Interaction V. B. Braginskiĭ, V. N. Rudenko, and G. I. Rukman	36	43, 51
An Investigation of the Shape of One Cross Section of the Fermi Surface of Tin M. S. Khaĭkin	42	43, 59
Angular Distribution of α Particles from the $Li^7(p, \alpha)He^4$ Reaction A. M. Petrov	47	43, 66
Cross Section for Gamma-Ray Absorption by O^{16} in the Giant-Resonance Region N. A. Burgov, G. V. Danilyan, B. S. Dolbilkin, L. E. Lazareva, and F. A. Nikolaev	50	43, 70
Storage of Cold Neutrons A. G. Doroshkevich	56	43, 79
Theory of Neutron Transfer in Nuclear Collisions T. L. Abelishvili	58	43, 81
Quasi-Classical Wave Function of a System with Many Degrees of Freedom A. V. Chaplik	61	43, 84
Formula for Calculation of Phase Shifts in Case of Thomas-Fermi and Hartree Potentials T. Tietz and L. Wojtczak	63	43, 87
Annihilation of an Electron-Positron Pair into Two Gravitons Yu. S. Vladimirov	65	43, 89
Thermodynamics of Anisotropic Superconductors V. L. Pokrovskiĭ and M. S. Ryvkin	67	43, 92
Dynamic Resonances in Solutions of the Low Equation for Some Field Theory Models B. M. Barbashov	76	43, 105
Inelastic Collisions of Light Atoms in the Adiabatic Approximation B. M. Smirnov	81	43, 112
Quasi-Electric Scattering of Fast Protons and the Hole Excitation Spectrum in the N^{14} Nucleus V. V. Balashov and A. A. Boyarkina	84	43, 117
Remark on the Range-Energy Relationship Do In Seb	87	43, 121
On the Theory of Vector Particles with Oriented Spins Yu. M. Loskutov and Yu. A. Popov	90	43, 126
Quantum-Mechanical Derivation of an Equation of State of Iron G. M. Gandel'man	94	43, 131
Hydrodynamic Description of the Motion of a Charged Particle in a Weakly Ionized Plasma Yu. L. Klimontovich and V. Ebeling	104	43, 146
Cerenkov Radiation and Inelastic Scattering of Particles M. I. Kaganov	109	43, 153
Stability of Plane Electron Beams in Bounded Systems with a Decelerating Electric Field Yu. N. Dnestrovskiĭ and D. P. Kostomarov	115	43, 158
On Kaon-Hyperon Resonances A. I. Baz', V. G. Vaks, and A. I. Larkin	118	43, 166
The $\mu^+\mu^-$ and e^+e^- Pair Production Cross Sections for Neutrinos Scattered by Nuclei E. P. Shabalin	125	43, 175
On the Solution of Equations of the Chew-Mandelstam Type N. Meiman and I. Gokhsfel'd	129	43, 181
Magnetic Sound Waves in a Cylindrical Plasma Pinch with Nonlinearity and Absorption Taken into Account S. I. Soluyan	132	43, 185

Available From Amer. Inst. of Phys.
Sov. Phys. - JETP
Vol. XVI, No. 1

	Page	Russian Reference
Dispersion Relations for Scattering of γ Quanta on Nuclei S. B. Gerasimov	138	43, 193
Adiabatic One-Dimensional Motions of an Ultrarelativistic Gas K. P. Stanyukovich	142	43, 199
On the Experimental Verification of Unitary Symmetry of Strong Interactions V. M. Shekhter	146	43, 205
Theory of Acoustic Cyclotron Resonance in Metals É. A. Kaner	154	43, 216
Effect of Phonon Excitations of Nuclei on the Characteristics of Giant Photoabsorption Resonance V. V. Balashov and V. M. Chernov	162	43, 227
Diamagnetic Plasma Instability for Large Ion Larmor Radius A. B. Mikhaïlovskii	164	43, 230
Propagation of a Nonequilibrium Heat Wave with Account of the Finite Velocity of Light A. S. Kompaneets and E. Ya. Lantsburg	167	43, 234
Angular Correlations of Leptons in K-Meson Decays B. N. Valuev	172	43, 241
Properties of the Ground and Excited States of Strongly Deformed Nuclei V. G. Solov'ev	176	43, 246
Quantum Field Theory in Constant Curvature p-Space Yu. A. Gol'fand	184	43, 256
New Possibilities in the Study of the Electromagnetic Properties of the Electron and Muon E. D. Zhizhin and V. V. Solov'ev	192	43, 268
Solution of the Linear Equations of the Dispersion Method in the Two-Particle Approximation A. F. Grashin	198	43, 277
The Single-Particle Green's Function of a Fermi-System with Attractive and Repulsive Interactions M. Ya. Amus'ya	205	43, 287
On Spin-Wave Statistics D. Frank and K. Meyer	215	43, 301
On the Electrodynamics of Weakly Nonlinear Media Sh. M. Kogan	217	43, 304
Some Properties of the Elastic Scattering Amplitude at High Energies V. N. Gribov and I. Ya. Pomeranchuk	220	43, 308
On the Theory of the Optical Potential A. G. Sitenko	228	43, 319

LETTERS TO THE EDITOR

Effect of Radiation on a Charged Particle Moving Through a Magnetoactive Plasma V. N. Tsytovich	234	43, 327
Number of Neutrons Emitted by U^{235} in Regions of Symmetric Fission V. F. Apalin, Yu. N. Gritsyuk, I. E. Kutikov, V. I. Lebedev, and L. A. Mikaëlyan	235	43, 329
Sodium Level Population Inversion in Emission from a Mixture of Sodium and Mercury Vapors S. É. Frish and O. P. Bochkova	237	43, 331
On Kinetic Transitions A. A. Vedenov	239	43, 333
On the Problem of the D^+ Meson L. M. Barkov, K. N. Mukhin, V. V. Ogurtsov, A. S. Romantseva, I. A. Svetolobov, S. A. Chueva, R. S. Shlyapnikov, M. F. Likhachev, V. S. Stavinskiĭ, and L. N. Strunov	240	43, 335
Depolarization of the Positive Muon in an Electric Field Yu. M. Ivanov, B. A. Nikol'skiĭ, B. M. Smirnov, and L. V. Surkova	241	43, 337
On the Character of πN and pp Scattering in the Region of High Momentum Transfers Yu. D. Bayukov, N. G. Birger, G. A. Leksin, and D. A. Suchkov	243	43, 339
$\Lambda\eta$ Resonance B. L. Ioffe	245	43, 341
Ionization Losses of Ultrarelativistic Electrons G. B. Zhdanov, M. I. Tret'yakova, V. N. Tsytovich, and M. N. Shcherbakova	245	43, 342
Dimensional Effect in a Metal in Multiples of a Certain Magnetic Field V. F. Gantmakher	247	43, 345
The Coherence and Directivity of Emission from a Ruby Laser M. D. Galanin, A. M. Leontovich, and Z. A. Chizhikova	249	43, 347
A Certain Inequality for the Effective Mass in Metals with Low Carrier Densities R. G. Arkhipov	251	43, 349
Concerning One Possibility of Amplification of Light Waves S. A. Akhmanov and R. V. Khokhlov	252	43, 351
Power Increase in a Pulsed Ruby Laser by Means of Modulation of Resonator Q N. G. Basov, V. S. Zuev, and P. G. Kryukov	254	43, 353
Measurement of the Probability for the Reaction $\mu^+ + He^3 \rightarrow H^3 + \nu$ O. A. Zaimidoroga, M. M. Kulyukin, B. Pontecorvo, R. M. Sulyaev, I. V. Falomkin, A. I. Filippov, V. M. Tsupko-Sitnikov, and Ya. A. Shcherbakov	255	43, 355
Anomalous Reflection of Sound From the Surface of a Metal at Low Temperatures A. F. Andreev	257	43, 358

Available From Amer Inst of Phys
Sov Phys - JETP
Vol XVI, No 1

CONTENTS

	PAGE	
(709)	365	Tasks of Soviet inorganic chemistry in connection with the Resolutions of the XXII nd Congress of the Communist Party of the Soviet Union: Tasks of investigating molten salts in the light of the Resolutions of the XXII nd Congress of the CPSU N. K. VOSKRESENSKAYA
(712)	366	The development of N. S. Kurnakov's theories of the chemical entity in modern inorganic chemistry V. I. MIKHEEVA
(722)	372	The formation of solutions of inorganic substances in water vapour O. I. MARTYNOVA and Yu. F. SAMOILOV
(729)	375	Vapour pressure of SeO_2 E. V. MARGULIS, L. S. GETSKIN, and N. S. MIL'SKAYA
(732)	377	Heats of reaction of oxides and hydroxides of elements of the zinc subgroup with solutions of perchloric acid and hydrogen halides V. A. LATYSHEVA and L. R. GORYANINA
(739)	380	Determination of the pH at the beginning of dissolution and of the activity product of gadolinium hydroxide P. N. KOVALENKO and K. N. BAGDASAROV
(743)	382	Reaction of iron with silicon tetrachloride M. I. TUNINA and N. G. KLYUCHNIKOV
(749)	386	Optical activity of triamine complexes of platinum(IV) I. I. CHERNYAEV, O. N. ADRIANOVA, and N. Sh. LEITES
(756)	391	Mixed iodopentamine complexes of platinum I. I. CHERNYAEV and N. T. KUZNETSOV
(762)	394	Acid-base properties of platinum pentamines containing ethylenediamine and ammonia I. I. CHERNYAEV and N. T. KUZNETSOV
(769)	397	Reactivity of amine ligands in platinum(IV) complexes Yu. N. KUKUSHKIN
(776)	401	Metal derivatives of diacetyl hydrazone oxime A. V. ABLOV and N. I. BELICHUK
(783)	404	Cobalt(III) complexes with a coordinated sulphito-group A. V. BABAEVA and I. B. BARANOVSKII
(791)	409	Reaction of ZrOCl_2 with alkali metal cyanoferrates(II) in acid E. A. IONOVA and I. V. TANANAEV
(795)	411	Peculiarities in the behaviour of zirconyl in solutions L. M. ZAITSEV and G. S. BOCHKAREV
(803)	415	Thermal decomposition of potassium and sodium metaniobates E. I. KRYLOV, I. A. DMITRIEV, and M. M. STRELINA
(807)	417	Preparation and crystal structure of new thiocyanatoamminenickelates E. K. YUKHNO
(811)	418	Vanadium(III) salicylate L. B. LEVASHOVA and V. L. ZOLOTAVIN
(814)	420	Stability of the complexes of triply-charged metal ions with substituted salicylic acids V. I. KUZNETSOV and N. N. BASARGIN
(822)	424	Determination of the composition and stability of complex compounds by ion-exchange chromatography L. I. TUKHONOVA
(831)	429	Individual and joint solubilities of aluminium and phosphorus in germanium and silicon N. Kh. ABRUKOSOV, V. M. GLAZOV, and LU CHEN-YÜAN
(836)	433	Concentration regions of stability of silicides of niobium at 1250° S. I. ALYANOVSKII, P. V. GEL'D, and I. I. MATVEENKO
(844)	436	The prediction of approximate melting points of certain alloys in the Ni-Ti-Cr-Mo-W-Nb system F. N. PEREL'MAN

Available From Chemical Society

- (850) 438 Transformations of CeO_2 , Nd_2O_3 , and Sm_2O_3 , and their reactions with molten chlorides of lithium and potassium and with sodium carbonate and sulphate
N.K. VOSKRESENSKAYA and S.I. BERUL'
- (856) 442 X-Ray diffraction study of compounds in the PbO-SiO_2 system
L.G. BEREZKINA and D.M. CHIZHIKOV
- (860) 444 Thermal analysis of the $\text{Na}_2\text{SO}_4\text{-Rb}_2\text{SO}_4$ and $\text{Ca}_2\text{SO}_4\text{-Na}_2\text{SO}_4$ systems
V.E. PLYUSHCHEV, R.G. SAMUSEVA, and I.F. POLETAEV
- (866) 447 Thermal analysis of the $\text{Ca}(\text{ClO}_4)_2\text{-KClO}_4$, $\text{Ba}(\text{ClO}_4)_2\text{-KClO}_4$, and $\text{Ba}(\text{ClO}_4)_2\text{-Ca}(\text{ClO}_4)_2$ systems
L.I. CHUDINOVA
- (873) 450 Fusion in the $\text{BaF}_2\text{-Li}_2\text{F}_2\text{-Na}_2\text{Cl}_2$ system
V.I. VERESHCHAGINA
- (877) 452 Investigation of indium sulphides. The $\text{In}_2(\text{SO}_4)_3\text{-H}_2\text{SO}_4\text{-H}_2\text{O}$ system
E.N. DEICHMAN, G.V. RODICHEVA, and Zh.A. BRITSYNA
- (885) 456 Solubility isotherm in the cobalt chloride-urea-water system at 20°
G.K. DISTANOV and E. KYDYRMYSHEV
- (889) 458 Influence of the constitution of zirconium in solution on its reaction with organic reagents
A.K. BABKO and G.I. GRIDCHINA
- (896) 462 Calculated solubility isotherms in systems of eutonic type
F.M. PEREL'MAN
- (900) 464 Optimal projection representing simple and reciprocal systems with any number of components
F.M. PEREL'MAN
- (903) 466 Concentrating traces of zinc by coprecipitation
V.T. CHUKO and N.P. D'YACHENKO
- (910) 469 Coprecipitation of traces of indium with basic copper salts from copper nitrate solution and with zinc sulphide from zinc sulphate solution
V.T. CHUKO and N.P. D'YACHENKO
- (915) 471 Adsorption of thorium on cation-exchange resins
A.I. ZHUKOV, E.I. KAZANTSEV, and V.N. ONOSOV
- (921) 475 Composition of thorium ions adsorbed by a cation-exchange resin
A.I. ZHUKOV, V.N. ONOSOV, and E.I. KAZANTSEV
- (926) 477 Separation of thorium and the rare-earth elements on ion-exchange resin KU-1
A.I. ZHUKOV, V.N. ONOSOV, and N.A. SHEVTSOV
- (930) 479 Properties of Ca_2Sb_2 , prepared by Vekshinskii's method
Ya.A. UGAI, N.V. KOTOSONOV, R.L. FOGEL'SON, and G.S. TKACHEVA
- Brief Communications (931) 480 Composition of a thiocyanato-complex of rhenium
D.I. RYABCHIKOV and I.I. NAZARENKO
- (932) 481 Extraction of nitric acid with di-n-octylamine
E.A. MEZHOV, A.A. PUSHKOV, and V.S. S'IMIDT
- (935) 482 Refractometric investigation of the alkaline earth fluorides in aqueous solutions
E.I. PETROVA
- (937) 483 Investigation of complex formation by zirconium with α - and β -aminopropionic acids in nitric acid by an extraction method
A.S. SOLOV'KIN, Z.N. TSVETKOVA, and N.S. POVITSKII
- (940) 485 Preparation of oxopentafluororhenates by the hydrolysis of octafluororhenates
E.G. IPPOLITOV
- (941) 486 Mass spectrometric investigation of the composition of the vapour phase above the nitrides of zirconium, titanium, and boron
P.A. AKSHIN and Yu.S. KLODEEV
- (942) 487 Investigation of chromium-molybdenum-nickel alloys in the chromium-base solid solution region
A.T. ORIGOR'EV and V.V. KUPRINA
- (945) 488 Chemical methods of drying hydrogen fluoride
N.S. NIKOLAEV, Yu.A. BUSLAEV, and S.V. VLASOV
- (947) 489 Infra-red absorption spectrum of magnesium hydride
N.N. MAL'TSEVA and Yu. Ya. KHARITONOV
- (948) 490 Hydration of hydrogen halide complexes in extraction by ethers
A.F. MORGUNOV and V.V. FOMIN
- Miscellany (951) 491 Second Congress on the Chemistry of Peroxides
- (953) 494 Conference on the Chemistry of Complex Compounds in Wroslaw (Poland)
- Letter to the Editor (954) 494 Comment on the Article of M. Bobtelsky "Fundamentals of Neterometry and Their Interpretation"
M.E. TSUMBLER, V.I. DERENOVSKI, and N.S. PROSYANK

Available From Chemical Society

AUTHOR INDEX

- A -

Abayev, B.	4	Apostel, Gheorghe P.	41
Abdullayev, V. M.	126	Arbolaez, Eloy Ribalta	81
Abel, H.	156	Arbusova, I. A.	108
Abragam, A.	156	Aref'yev, B. O.	174
Acs, Lajos	34	Argirovic, Milenko	87
Adamshvili, Yr.	17	Arifov, U. O.	160
Adel'son-Vel'skiy, G. M.	124	Ariizumi, M.	173
Adloff, Jean-Pierre	97	Aristarkhov, N. N.	155
Adloff-Bacher,		Arkhinov, A.	12
Madeleine	97	Aroyo, Zhak	20
Adrianova, V. P.	135	Arrieux	54
Afanasijev, D.	92	Arsic, D.	24
Agadzhanian, N. A.	127	Artamonov, A. Ya.	138
Aganyants, Ye. K.	90	Artamonov, F.	11, 12
Agarkov, F. T.	129	Artemov, V. A.	179
Ai, Ssu-chi	71	Artem'yeva, N.	4
Aidit, D. N.	72	Arutyunov, S. S.	165
Akhachinskiy, V. V.	93	Arzumanyan, A. A.	85
Akhmanova, O. S.	178	Asada, T.	173, 174
Akinin, P. Y.	174	Asano, E.	153
Aksenov, B. N.	127	Ashimbayev, T.	7
Aksenov, G. I.	141	Ashmarin, I. P.	126
Alapeuso, A.	51	Asratyan, E. A.	129
Aleksandrov, A. Ya.	158	Assonov, A. D.	138
Aleksandrov, N. I.	125, 131	Astrakhantsev, S. M.	140
Aleksandrov, V. P.	142	Astrova, G. G.	89
Alekseyev, S. V.	105	Ato, Y.	173
Aleksic, Mihailo	23	Atsumo, Hideo	101
Alhorn, K.	31	Aubert, J. P.	91
Alonzo, Dora	84	Ausch, Sandor	33
Al'tgauzen, A.	10	Avaste, O.	157
Anador, Tulia Guiros	174	Avdiu, Bajram	42
Amiyan, V. A.	1	Averchenko, B.	15
Amosov, V. M.	142	Aver'yanov, S. F.	120
Anasiewicz, Wanda	133	Avsyuk, G. A.	120
Anders, Manfred	31	Ayabe, Yuzo	171
Andrejev	104	Ayurzanayn, B. A.	163
Andrejev, E. I.	142		
Andrejev, N. D.	180	- B -	
Andrianov, K. A.	96	Baare, R. D.	151
Andrievskiy, R. A.	138	Babakov, A. A.	139
Andriyevskiy, H.	11	Babicheva, Ya. V.	103
Angelov, Todor	21	Babikov, A. A.	140
Anisimov, S. I.	167	Babushkin, V.	8
Antonov-Romanovskiy,		Bacilek, Karol	42
V. V.	162, 163	Bajorek, Marian	36
	166	Bakalar, Ladislav	26
Aoyama, Y.	152	Bakanova, S. P.	158
Apertet, J.	57	Bakayev, O. O.	103
		Bakayev, V. G.	1

Bakhrakh, Ye. E.	101
Bakk, Zoltan	34
Bakuto, I. A.	103
Balavanova, V. N.	120
Balloffet, H.	99
Balty, Berl	61
Baranov, B. M.	108
Barbosa, L. A. G.	84
Barca, Luciano	55
Barenblatt, G. I.	167
Barishpolets, V. T.	111
Baroyan, O. V.	130
Bartczak, Nikodem	37
Bartscher, W.	99
Basenov, T. K.	10
Basevich, V. Ya.	94, 107
Bassin, F.	179
Batarchukova, N. R.	104
Bauer, A.	172
Bauer, C. O.	148
Bauer, K. H.	150
Baum, F. A.	157
Baumann, Ruth	29
Baval, M.	122
Bayev, S. M.	1
Becker, R.	144
Beelen, Rene	53
Behrens, Fritz	44
Bel'chenko, A. Ya.	107
Belikov, V.	176
Belikova, F. I.	135
Belkin, R. I.	130
Belokopytov, V.	9
Belosel'skiy, V. S.	165
Belov, D. M.	132
Belova, I. P.	126
Belozerskiy, A. N.	96
Belyanchik, N.	137
Belyatskiy, D. P.	129
Belyayev, L. M.	96
Ben-Amitay, Sh.	60
Benari, S.	42
Benes, Vaclav	26
Bennewitz, J.	145
Beonov, A. F.	137
Berenshtein, L. E.	142
Beresnev, R. I.	136
Berezhnoy, A. S.	94
Berg, A.	9
Berg, A. I.	13
Berg, Leo S.	89
Berger, J.	97, 169
Berghe, R. Vanden	169

Bernshteyn, M. A.	130
Bernshteyn, M. L.	139
Berri, L.	9
Bershadskiy, Rudolph Yul'yevich	178
Bezborod'ko, M. D.	142
Bieri, R.	116
Bilkenroth, G.	51
Bilous, V. M.	175
Biryukov, D. A.	129
Blazic, Miso	49
Bleichroth, W.	145
Bleskina, V. V.	112
Blinov, V. I.	157
Bloch, J.	155
Blokhin, N. N.	129
Bodnar, Artur	38
Boeckers, E.	151
Boethin, T.	147
Bogdanovic, Milos	25
Bogorov, V. G.	18
Bogovski, P. A.	130
Bohnenkamp, K.	145
Boldyrev, V. G.	176
Bolle, Arved	52
Bologan, N.	41
Bolotin, A. L.	110
Bolotin, L. I.	175
Bolotin, V.	86
Bonilla, Raul Coporo	81, 82
Boom, Ye. A.	142
Borchert, Fritz	29
Bordoni, Piero G.	173
Borisenko, V. O.	154
Borisov, I.	11
Borisov, V.	177
Borodich, V. D.	135
Borodin, M. Ya.	158
Borok, B. A.	141
Bosquet, Michel	53
Botkin, P. P.	161
Botre, C.	100
Bouhali, Larbi	59
Bouix, Maurice	169
Bourrier, Jean	155
Bovard, Pierre	91, 155
Boyev, S. N.	125
Boytsov, V. V.	7
Bozic, Drago	25
Brandes, G.	150
Braude, A. A.	161
Brauer, H.	114
Brauer, R.	27

Braun, Henri	169
Braun, Jaromir	105
Bren	62
Bresson, Jean-Marie	59
Bretz, Hans	51
Brhacek, L.	149
Brodskiy, K. A.	88
Bronshten, V. A.	160
Bronskiy, L. N.	110
Broude, B.	86
Buchhoitz, A.	170
Budeanu, Constantin	40
Budnikov, P. P.	94
Budyko, M. I.	120
Budzinski, K.	123
Buhler, H-E.	146
Bukharov, B. P.	6
Buljan, M.	123
Bulygina, E. V.	163
Bulyshev, D. K.	136
Bunge, H. J.	98
Bungeroth, A.	146
Bunyadov, N. N.	126
Busek, Z.	113
Buss, Franz	31
Buticher, Horst	28
Butinov, N. A.	19
Butkova, S.	143
Butsev, Khristo	22
Buzek, Z.	113
Bykov, S. B.	104
Byvshev, S. V.	104

- C -

Cadart, Claude	53
Calamandrei, Franco	55
Cannan, Chaviv	61
Capetti, Gheorghe	40
Cazafura, K.	153
Ceder, L.	51
Cerk, N.	154
Cermak, K.	168
Cernohorsky, Martin	168
Chakalov, Asen	22
Chan, Cho	66
Chanachev, I. S.	132
Chang, Chi-ch'un	78
Chang, Chien	78
Chang, Ch'ing-t'ien	77
Chang, Pang-ying	66
Chang, Ta	63
Chang, Wei	77

Chao, Ming-fu	65
Chaporova, I. N.	136
Char n, P.	114
Chaykin, P.	2
Chedaille, J.	113
Ch'en, Hsuan-shan	78
Ch'en, Hsueh-yang	66
Cherdantsev, Gleb	
Nikanorovich	1
Chervyakov, F. Ya.	138
Chiang, Hsueh-mu	65
Chiang, Nan-hsiang	77
Chilingaryan, A. A.	89
Chinayev, P. I.	175
Chiu, Pu	76
Choe, Sang Muk	73
Cholakov, Stanchio	20
Chon, Tal Kyong	73
Chong, Du-hwan	74
Chorazy, M.	101
Chou, Wei-chin	96
Ch'u, An-ping	75
Chu, Cho	63
Chu, Wen-pin	78
Chuykov, B. O.	106
Clemens	27
Coste de Bagneaux, J.	57
Cottignies, S.	155
Cuer, Pierre	169
Czownicki, J.	46

- D -

Dahn, H.	98
Damman, Klaus	28
Danckwarat, Erich C. N.	115
Dang, Hanh Khoi	134
Dang, Thai Mai	75
Dang, Yu Hy	134
Danilin, A.	81
Danilin, A. S.	93
Darras, R.	169
da Silva Teixeira,	
Antonio Jose	84
Dazhdondob, Dz	68
De Groot, Paul	52
Delone, B. N.	163
del Prado, Jorgo	83
de Martino, Francesco	54
Demin, N. N.	131
De Moulin, F. W. K.	132
Derankova, Elizabeta	
Borisovna	125

Deryagin, B. V.	158
Deryugin, N. G.	165
Desfossez, P.	151
de Shallit, Amos	62
Detrez, P.	98
de Villclume, J.	97
Deych, M. Ye.	112
Diaz de Villegas, J.	59
Dietmar, E.	115
Dikhtyar, A.	137
Dinh, Chan	75
Djuranovic, Veselin	24
Dmitriev, M. T.	157, 166
Dobnar, S. A.	109
Dobrodeyev, M.	11
Dobrushin, R. I.	124
Dobrzaniecki, Josef	37
Dobrzanskiy, C. F.	96
Donskoy, V.	15
Doring, W.	144
Dorofeyev, Yu.	8
Dorokhov, A.	7
Doruk, M.	146
Doskach, A. G.	120
Dostal, H.	129
Doulat, J.	155
Dovlalevskiy, Ya. M.	139
Doynov, Dafin	22
Drabkin, A.	8
Drachevskiy, K. P.	178
Dragan, Ya. P.	178
Draganov, Khr.	21
Draganov, Rashko	20
Draskivich, H.	32
Draskovic, M.	48
Drazkiewicz, H.	32
Drescher, H.	32
Dreyer, Wolfgang	98, 99
Druzhinin, I. I.	139
Dubinin, N. P.	125
Dubovik, M. M.	11
Dudnikov, S.	10
Dudzinski, Wladyslaw	39
Duflot, J.	144
Dumont-Fillon, J.	113
Dundrova, V.	144
Duong, Quoc Can	69
Durand, J.	141
Duzhenkov, E. P.	112
Dvorak, V.	113

- E -

Ebeling, F.	148
Eisenhuth, C.	149
Elisevov, E. H.	135
El'piner, I. Ye.	160
Enev, P.	21
Engell, H. J.	151
Enomoto, S.	173
Entin, I. I.	7
Epik, O. P.	136
Eppler, W. F.	98
Ercegovic, A.	92
Eremenko, V. N.	140
Erichmeyer, H.	98
Erimann-Jesnitzer, F.	146
Ermanno,	116
Ernolayev, V. I.	136
Ernst, H.	116
Estrin, G. B.	130
Estulin, G. V.	136
Evensmo, Sigurd	56
Everling, F.	116
Evghenide, C.	39
Evtushenko, Eugene	16
Ewald, Heinz	170
Excargega, Raul	83
Eydel'man, M.	14

- F -

Faco, Rui	82
Fadeyev, S. I.	109
Fal'kevich, A. S.	140
Falkowski, Stanislaw	36
Fang, Yu	76
Fang, Yu-yen	78
Faulstich, R.	149
Favier, J.	169
Fedorchenko, I. M.	158
Fedorov, V. I.	161
Fehling, J.	152
Fellicht, K.	115
Feller-Kniemair, M.	150
Feng, Hua-te	64
Ferner, V.	106, 116
Fesnikov, V. G.	121
Fesolowicz, Wladzimirz	92
Fialko, Ye. I.	87
Fialkov, D. A.	18

Filatov, A. N.	128
Filatov, V. I.	127
Filipov, Gisha	43
Filipovich, O. P.	118
Filippova, R. D.	102
Findeisen, Werner	33
Firsanov,	111
Fischhoff, E.	114
Fishchenko, A. Ya.	128
Fischer, Jozef	36
Flakserman, Yu. N.	13
Flores, J.	113
Foch, Pierre	97, 169
Fomina, A. M.	164
Fontaine, Y.	91
Fradin, A. Z.	107
Frank-Kamenetskiy, D. A.	159
Frantiu, I.	153
Freitag, W.	170
Frey, Michel	97
Freytag, George	31
Frick, P. G.	91
Frolov, Ye.	5
Fuji, T.	153
Fujii, I.	173
Furduescu, Gabriel	40
Furtunov, Dyanko	21
Furuts, T.	173
Fushimi, H.	173
Futaky, Ivan	45

- G -

Galinzyanova, R.	1
Gallay, M.	177
Gal'perin, M. D.	128
Gal'perin, Yu.	176
Gal'tsov, A. P.	120
Ganulin, T.	92
Ganev, D.	43
Ganina, T. N.	96
Garbe, H.	150
Gar'kovets, V.	7
Gartner, H.	98
Gasparic, Jiri	168
Gatal'skiy, M. A.	122
Gatovskiy, A.	5
Gauvenet, A.	97
Gava, George	39
Gavel, Czeslaw	177
Gavrilenko, S. A.	112
Gavrilov, G. B.	90
Gavrilyuk, M. I.	136
Gazenko, O. G.	176

Gazizov, Kh.	7
Gefen, N. Ye.	125
Geiger, Pedro Pinchas	81
Geigerl, E.	145
Gel'd, P. V.	137
Gel'man, A. V.	95
Genzel, Ludwig	171
Georges, J.	114
Gerd, M. A.	176
Gerling, W.	150
Giese, Manfred	99
Gigli	116
Glazenko, T. A.	166
Glazkov, P. G.	139
Glazunov, T. K.	13
Glushkov, V.	179
Glushkov, V. M.	180
Gnevysheva, R. S.	87
Gnojek, Stanislaw	37
Gokhshteyn, D. P.	104
Golanski, Henryk	48
Gol'danberg, A. S.	138
Goldanskiy, V. I.	155
Goldayev, I. P.	11
Gol'dberg, Ye.	5
Gol'denberg, S. A.	107
Gol'dman, A.	11
Golikov, I. N.	4
Golubev, L. S.	141
Golovintsov, A. G.	95
Gol'tsova, L. I.	112
Golub, A. P.	135
Golub, S. I.	175
Golubev, L. S.	141
Golz, Herbert	16
Goman'kov, V. I.	136
Gomez, Barrachina M.	101
Goncharov, I.	8
Gonet, Tadeusz	38
Gorbachev, N.	176
Gorbunov, A. N.	93
Gordiychuk, I. B.	13
Gorissen, H.	115
Gorlach, Ryszard	37
Gorodetska, S. F.	133
Gorshkov, A. S.	13
Grabovetskiy, A. P.	139
Gracheva, Ye. P.	160
Granat, S. S.	2
Grauby, Andre	91
Grazhul', V. S.	85
Gribov, L. A.	95
Grigorev, F. H.	139
Grigor'yevich, Aleksey	178

Gringauz, K. I.	177
Grodzovskiy, G. L.	168
Gronowski, Edmund	45
Grosse-Ruyken, H.	148
Grossoehme, Horst	28
Grundman, H.	27
Grushetskiy, L.	3
Gubachev, Yu. M.	130
Gubarev, A. V.	112
Guerrero, Roger	
Gonzalez	84
Gugovski, Neycho	21
Gul'binskaya, Marianna	17
Gulko, B. N.	110
Gulle, K.	27
Gulyas, Jeno	116
Gunther, Walter	28
Gurevich, S. B.	13
Gurevich, S. M.	136
Gurevich, Ye. S.	5
Gurobskiy, N. N.	176
Gurvich, A. S.	159
Gurzadyan, G. A.	120
Gut, K.	144
Guzman, I. Ya.	140
Gvozdev, A. A.	109
Gyorgy, Sugar	34

- H -

Ha, Van	69
Hadj, Bachir	59
Haegeman-Geladi, G.	97
Hafner, Vinko	24
Hai, Chu	70
Hai, Nhu	76
Hai, Van	76
Hak, Tok-chong	74
Hamilton, E. H.	149
Hanke, M.	105
Hannen, H-D.	146
Hansen, Kjell	56
Harms, F.	150
Hartmann, W.	156
Hasegawa, M.	153
Haskind, M. D.	121
Haufler, V.	26
Heiner, H.	148
Heintze, W.	30
Heisenberg, Werner	172
Hejduk, J.	105
Hellwege, K. H.	172
Henigman, Shimon	60
Hennig, H. D.	29
Herer, Wiktor	35

Hermanos, Trejos	84
Hiech, Wilhelm	27
Hintenberger, Heinrich	170
Hlushkov, V.	181
Ho, Cheng	65
Ho, Kuang-yu	64
Ho, Lioh	69
Hoang Ky	134
Hofer, Karl-Heinz	132
Hoff, Frantisek	105
Hogberg, B.	51
Holzinger, Reimar	58
Hoppe, Otto	30
Horrais, M.	113
Hosek, Josef	113
Hothmer, Jurgen	172
Howitz, C.	32
Hoxha, Enver	42
Hsiao, Sung-li	65
Hsien, Teng-Feng	78
Hsin, K'un-ch'ien	66
Hsu, Chung-lin	65
Huang, Mei-yuan	120
Hufner, S.	172
Hulthen, Lamer	170
Hung, T'ao	79
Huppertz, P. H.	148
Hurta, Frantisek	27
Husner, V.	26
Hutzler	45
Huzimura, R.	173

- I -

Ignatkov, V. D.	95
Iijima, Y.	152
Ikonnikov, S.	15
Iliev, Evg.	21
Iliev, Iliya	21
Illgner, K. H.	116
Il'yushin, A. A.	109
Imamura, Hiroshi	174
Ingrao, Pietro	54, 5
Inoue, E.	123
Iodkovskiy, S. A.	135
Ionascut, A.	39
Isayev, M. S.	126
Isayev, N.	9
Ishida, T.	153
Ispas, M.	153
Ivakhnenko, A. G.	160
Ivancenco, Alexandru	41
Ivanev, V. Ya.	142
Ivanoff, Dimiter	99
Ivanov, A.	4, 9

Ivanov, D. P.	180
Ivanov, I.	7
Ivanov, N.	2
Ivanov, P.	9
Ivanov, V. A.	127
Ivanov, V. I.	143
Ivanova, E. N.	90
Ivchenko, A. G.	86
Ivens, G.	145
Izakson, Kh. I.	13

- J -

Jaegermann, Tadeusz	35
Jakab, Sandor	34
Janos, Szabo	172
Jarosinski, J.	117
Jaumain, M.	97
Jegaden, G.	144
Jemuovic, Rodoljub	49
Jeney, Sandor	34
Jentzsch, Garol	170
Jeremie, M.	153
Jespersen, Knud	52
Joigneau, S.	97
Jonic, M.	48
Jonuscheit, Karl-Heinz	28
Jovic, Milan	49
Juda, J.	123
Jurecek, Zdenek	48

- K -

Kachalov, V. P.	87
Kadlas, Pravdomil	26
Kalachev, P. D.	164
Kalechits, V.	10
Kalyapin, V. P.	10
Kalyuzhnaya, R. A.	130
Kamenetskiy, A. V.	81
Kamenov, Evgeniy G.	43
Kaminishi, T.	173
Kaminski, Wlodzimierz	38
Kaminskiy, A.	3
Kan, Feng	77
Kanev, Itzhak	62
Kantorovich, L. V.	164
Kao, Hsiang	64
Kao, Ting-chung	71
Kao, Wan Pao Cha Pu	72
Kao, Yin	77
Karakash, E. S.	122
Karlashenko, N. I.	127
Karniewski, Edward	38
Karski, Tadeusz	37

Kartashevskiy, N. G.	128
Kasimov, B. S.	161
Kassatsiyer, M. Ya.	19
Kassnitz, H.	106
Kastler, A.	169
Kavalera, V.	14
Kawanishi, M.	174
Kazhdan, P. I.	94
Kazhinskiy, B. B.	102
Kedrov, B. M.	180
Keleinikova, S. I.	91
Kenji, Miyamoto	73
Kerimov, D. A.	180
Kern, E.	114
Khachaturov, T.	15
Khaliletskiy, Georgiy Georgiyevich	17
Khandros, L. G.	108
Kharlamov, V. T.	141
Khauke, M. O.	5
Khazanov, V. S.	164
Khazen, I. M.	131
Khil'mi, G. F.	89
Khobets, L. G.	103
Khodakov, G. S.	164
Khokhlov, M. Z.	87
Khovakh, M. S.	108
Khromov, V. G.	141
Khudyakov, G. N.	157
Khusanov, M. Kh.	140
Kibardin, Yu.	177
Kielichowski, Julian	37
Kim, Buong-ok	74
Kim, Ch'ung-hun	80
Kim, Kwang-bin	68
Kim, Sang-hak	67
Kim, Wal-lyong	68
Kim, Yang-son	74
Kim, Yong-gil	68
Kirnos, D. P.	157
Kiselev, A. V.	93
Kiselev, M. I.	166
Kiselev, S. V.	95
Kishkin, S. T.	139
Kiss, Istvan	100
Kitamura, Y.	152
Klein, M. Siegfried	169
Kleinmachnow	116
Kling, R.	170
Klingher, O. D.	40
Klisaroff, Georgi	48
Klotsvog, F.	9
Klushina, M. I.	108
Klychnikov, V. M.	121
Knabe, Wladyslaw	117

Knauer, Arnold	29
Knobloch, Gunther	29
Knuppel, H.	151
Knyazeva, E. N.	131
Ko, Chih-ta	65
Ko, Chong-su	73
Koch, H.	115
Kochergin, I. G.	12
Kofler, H.	115
Koike, Y.	152
Kolevski, Vasil	43
Komaki, S.	173
Komar, Slavko	25
Komov, A. M.	85
Kondo, N.	173
Kondou, U.	173
Kondrat'yev, K. Ya.	118
Kondrat'yeva, E. N.	90
Kondurov, I. A.	155
Kong, Wyong-Gyong	74
Konieczny, Jerzy R.	50
Konishev, P.	22
Konovalov, E. G.	135
Konrad, Jerzy	117
Konson, A. S.	1
Kopersak, N. I.	143
Koppel, I.	100
Kop'yev, V. Ya.	176
Kopytin, L. M.	93
Koranyi, Gyorgy	35
Kormilov, V. Ye.	6
Kormmov, Yu.	8
Kornyushkin, Yu. D.	104
Korobeynikov, V. P.	167
Korolska, Maria	38
Korovin, Yu. I.	95
Korscak, J.	26
Korzh, P. D.	143
Korzhinskiy, D. S.	118
Kosenko, V. E.	95
Koshmarov, Yu. A.	162
Koster, W.	151
Kosterin, S. I.	162
Kostic, Vojislav	23
Kostogryzov, V. S.	107
Kotthaus, A.	92
Koudelka, Miroslav	26
Koval'chenko, M. S.	96
Kovalenko, F. F.	12
Koval'zon, M.	5
Kovtuu, S. F.	142
Kowalewicz, Andrzej	117
Kozakevitch, P.	143, 144
Kozhevnikov, V.	18
Kozlov, F. M.	18

Kozlov, L. F.	110
Kraimer, H.	151
Krakovskiy, N. I.	128
Kralove, Gradets	129
Krasinski, Z.	36
Krasotkina, N. I.	140
Krasovskiy, V. I.	119
Kraus, T.	146
Kraushaar, R.	30
Krauskopf, W.	149
Krautz, Erich	152
Krauz, Cyrill	85
Krehbeil, H.	172
Kreidel, Hellmuth	16
Kremidchiev, B.	21
Kribiskiy, A. S.	129
Krinchev, Khristo	49
Kropac, Ladislav	26
Krotkov, Fedor	
Grigor'yevich	16
Krotova, N. A.	158
Krusche, Hans	28
Krylov, S. S.	132
Krylov, V. A.	102
Krzhivoglavy, Yaro	131
Kubista, Z.	113
Kucera, Milan	49
Kucharz, Jerzy	39
Kucherenko, Ye. T.	175
Kuhn, Rudolph	99
Kuhn, V.	98
Kulik, V. P.	128
Kunin, T. I.	96
Kunitz, F. W.	97
Kunter, Gert	27
Kuntscher, W.	148
Kunz, W.	27
Kurochkin, V.	16
Kurt, W. G.	177
Kurtow, E.	42
Kushkov, Yu.	177
Kutateladze, S. S.	111, 167
Kutner, M. B.	6
Kutsenko, A. V.	155
Kuzina, A. M.	161

- I. -

Lachugin, Aleksandrovich	1
Ladu, M.	116
Landa, I.	130
Landauer, I.	40
Landgraf, H.	114
Landis, Ye. M.	124
Lange, Tze-mei	66
Lange, Ursula	31

Lapin, T.	3	Livertini, Lucio	54
Laser, David	62	Livshits, A.	10
Lashkov, A. I.	109	Livshits, Giler Markovich	18
Lauprecht, W.	145	Loginov, Vladislav	176
Lavrov, V. A.	5	Loginov, Z.	13
Lavrov, V. I.	139	Lopez, J.	143
Lavrovskiy, K. P.	93	Lopovok, L. I.	13
Laykhtman, D. L.	119, 121	Lozinskiy, M. G.	139
Layner, D. I.	142	Lu, Hsiang	66
Lazarev, V. G.	162	Lu, Ping-chang	66
Lazko, Ye. M.	17	Lucke, F.	150
Le, Cao Dsi	134	Luden, Yitshaq	60
Le, Quang Trung	134	Ludwig, C.	42
Le, Tat Dac	75	Lueg, W.	116
Lebedev, S.	17	Lukaszewica, Leon	124
Lebedeva, I. I.	119	Lunenok-Burmakina, V. A.	96
Lebedinskiy, A. V.	88, 94	Lusinyan, G.	10
Le Borgne, J.	97	Lutas, C.	41
Leclercq, D.	169	Lutidze, Sh. I.	103
Lee, Il-yong	68	Lux, Herman	99
Legkiy, V. M.	165	L'vov, V.	111
Lehnert, W.	149	Lyalev, Tr.	49
Lei, Chen-wu	79	Lyarin, A. N.	121
Lemke, Fritz	31	Lyashchenko, N. Ya.	159
Lender, Jeno	34	Lyashenko, Serba	161
Leng, Chao	63	Lyubarskiy, K. A.	121
Lengerova, A.	89	Lyubchenko, A. P.	136
Leonov, A. K.	119	Lyush, D. V.	1
Leontev, A. I.	167	Lyutov, Kostadin	49
Leont'yev, A. I.	165		
Leroy, P.	144		
Leskov, A.	8		
Lesnik, N. D.	140		
Lestev, A. M.	111		
Levinson, I. B.	158		
Levinson, Ye. M.	102		
Levitah, Y.	62		
Levshin, V. L.	163, 166		
Li, Ju-ch'i	91		
Li, Pan-lin	67		
Li, Shu-chih	71, 72		
Li, Yun-yang	77		
Liberadzki, Boleslaw	36		
Liberman, V.	2		
Libkind, A.	3		
Lifshits, S. B.	6		
Ligouzat, A.	57		
Likhachev, I. M.	88		
Lin, Ch'i-shou	180		
Lin, Feng	70		
Linkovskiy, G. B.	104		
Lipis, L. V.	95		
Litvinov, N. N.	126		
Liu, Kuang-sung	96		
Liu, Wei-kuang	78		

Maatsch, J.	99	Michalec, Frantisek	26
Macke, Wilhelm	172	Michalsky, Yosef	60
Maatov, N. M.	140	Michl, H.	99
Madualon, G.	92	Mickel, E.	144
Mader, Ernst	29	Midler, A.	162
Maehara, S.	152	Miekus, Kazimierz	38
Maetzke, Ernst-Otto	43	Mields, H.	171
Maglaperidze, O. K.	103	Mieth, W.	32
Magnanini, Ruth	81	Miftakhov, Kh.	7
Maier, K.	28	Migay, V. K.	86
Maitre, R.	113	Mihaila, M.	117
Maksimov, A. D.	162	Mihailovic, Stevan	23
Maksimov, I. V.	118	Mikhal'chenko, V.	104
Maksimovic, M.	92	Mikhaylov, H. S.	106
Maksimovich, V. A.	129	Mikhaylovskiy, V. M.	178
Malikova, Ye. D.	141	Mikheyev, A.	4
Malkowski, Jan	38	Mikolajczyk, Zdzislaw	37
Mal'tsev, V. V.	14	Milashkin, A. G.	130
Malyshkin, N. P.	127	Milenkovic, T.	23
Malyugin, V.	4	Mimaud, R.	155
Mandel'shtam, S. M.	179	Minchev, Dencho	85
Manitius, Stefan	35	Minchev, N.	43
Mann, Hellmut	31	Minh, Chi	69
Mansurov, A. R.	127	Minin, V. A.	112
Manuylov, Yu. G.	6	Minkov, M.	20
Mao,	78	Mints, L.	15
Marconi, Pio	55	Minyaylenko, M. O.	161
Marichev, S.	1	Minyaylenko, N. A.	159
Marincek, B.	147	Mirkin, S. L.	1
Martin, H. J.	170	Mironov, K. A.	108
Martinet, Gilles	53	Miroshnichenko, B.	14
Martinov, G. A.	158	Mirutenko, V. I.	133
Martynov, V. P.	137	Mirzoyeva, M. E.	126
Marx, F.	28	Misar, Jan	45
Masakbayev, A.	7	Mitin, S.	2
Masao, Fukushima	79	Mitin, V.	11
Mash, V.	15	Mitov, Mino	22
Masson, Andre	53	Mitroshyn, V. O.	175
Matsuda, Hiroaki	171	Moeschlin, S.	133
Matushkin, A. M.	131	Moiseyev, M. G.	162
Mayevskaya, A. N.	95	Mokovec, Frantisek	113
Mazokhina, N. N.	6	Moll, H.	98
Mecacci, G.	115	Mollowo, L.	115
Nedovar, B. I.	6	Molotilov, B. V.	139
Medvedev, A. S.	138		
Medvedev, Yu. I.	165	Mori, H.	106
Mel'nik, A. A.	86	Morimitus, W.	174
Mel'nikov, V. N.	141	Morita, S.	152
Mercier, Paul	59	Morozov, V. G.	161
Meshkov, Yu. Ya.	108	Morozova, I. P.	17
Metka, Ferenc	34	Morozova, L. P.	158
Meuldijs, P. W.	114	Mos, Alexandru	41
Meyer-Berkhout, V.	172	Moshentseva, L. V.	90

Moskalev, Yu. I.	88
Moskaleva, Yu. I.	94
Moskvin, A. I.	95
Moskvina, A. G.	157
Moukhtar, M. S.	91
Mrkic, Dusanka	25
Muchnik, V. M.	120
Muftio, Hazim	24
Muhlenpfordt, J.	156
Mukhoyedova, S. N.	128
Mullamaya, Yu.	157
Mulvey, T.	105
Mulyarchik, T.	176
Munch, W.	32
Mund, A.	151
Muraveyskaya, V. S.	126
Muravyev, V. M.	1
Muromtsev, A. M.	119
Murzayev, E. M.	178
Murzinov, I. N.	110
Murzov, K. P.	139
Muszynska, Krystyna	36
Muszynski, Boguslaw	36
Muzalevskiy, O. G.	4
Myloserdova, V. D.	161

- N -

Nadal'yak, G.	4
Nadziakiewicz	101
Nadziakiewicz, J.	117
Nagel, Egon	29
Nagy, Andras	34
Naito, Tomochika	73
Nakao, Tsuneyo	156
Napalkov, A. V.	151
Natta, Alessandro	55
Naud, R.	59
Nebylitsyn, V. D.	131
Nekhoroshev, V. P.	89
Nekrashevich, I. G.	103
Nemco, Vladimir	177
Neshev, Slavi	20
Neugebauer, V.	123
Neuhaus, H.	171
Neumann, E.	115
Neyland, V. Ya.	109
Ngo, Ngoc Linh	70
Nguyen, Bac	76
Nguyen, Dinh Thi	80
Nguyen, Huu Thuyet	133
Nguyen, Kha	69
Nguyen, Thi Diem Hong	134
Nguyen, Ung Thi	69

Nguyen, Van Thi	69
Nguyen, Van Tho	134
Niangoran-Bouah, Georges	59
Niebauer, G.	99
Nikitina, G. P.	95
Nikolayev, B. N.	1
Nikolayev, S. N.	17
Nikol'skiy, A. M.	88
Nikonov, V. A.	178
Nikonova, M. P.	96
Nimz, Wolfgang	27
Niskanen, V.	122
Njoto	73
Noda, Yasaburo	73
Norkin, S. B.	168
Norland, I. B.	52
Nosov, V. G.	94
Novikov, I. I.	108, 159
Novitskiy, V. K.	135
Novozhilov, B. V.	168
Nowakowski	117
Nowakowski, Jozef	48
Nudel'man, O. F.	107

- O -

Oberhofer, A. F.	106
Obolenskiy, N.	81
Obukhovskiy, Ya.	3
Occella, E.	92
Ocepek, D.	154
Odiashvili, B.	1
Ogibalov, P. M.	109
Ognev, S. I.	89
Ogorodnikov, N. N.	159
Okamoto, Shoichi	101
Okerblom, Yu. I.	109
Okhrimenko, Ya. M.	137
Ok'khovnikov, Yu. P.	93
Oktaba, Wiktor	174
Oldziybat, P.	68
Olsar, Vilem	32
Olsen, Erley	52
Olszewski, Henryk	38
Ono, A.	174
Onoda, I.	153
Opauski, Istvan	100
Opel, P.	145
Oprits, V.	41
Oreshkin, P. T.	104
Orlov, Vladimir	104
Ornig, H.	146
Osipova, V. A.	93

Ostapov, G. K.	118.
Osterling, Kjeld	56
Otmakhova, I. P.	166
Ovcharenko, O. M.	175
Ozerov, R. P.	95

- P -

Pacqula, B.	147
Pacyna, H.	147
Paczesniak, Jerzy	35
Paesche, W.	122
Paidassi, J.	143
Paja, B.	25
Pajestka, Josef	35
Pak, Ung-Gol	74
Pak, Yong-Song	67
Panning, R.	98
Paolicchi, Luciano	54
Paoloni, Leonello	100
Papaianou, Ezekiel	43
Papazov, N.	47
Parfenov, V.	10
Paribok, T. A.	90
Parinov, I.	10
Parshin, I. A.	119
Pasarenko, G. S.	154
Pastukhov, B. M.	125
Paton, B. Ye.	6, 140
Patterson, W.	147
Paushkin, Ya. M.	94
Pavicevic, N.	47
Pavlenkov, A. A.	159
Pavlov, E. F.	89
Pavlova, T. D.	119
Pavlovskaya, N. T.	142
Pavlovskiy, Ye. N.	91
Pawelski, O.	116, 150
Payliyan, M. Ye.	132
Ped, D. A.	118
Pekelis, V.	179
Peltier, Raymond	60
Penanen, Jarno	53
Pepperhoff, W.	98, 146
Perbix, G.	145
Peregudov, F. I.	87
Perel'man, R. G.	176
Pereverseva, A. V.	154
Perie, R.	143
Perneczky, Laszlo	172
Persson, G.	149
Pesakovic, Milentje	23
Pesnopevtsev, P.	12
Peter, W.	150
Petev, Mikhail	20

Petilli, M.	116
Petrasinovic, D.	24
Petrenko, F.	5
Petrenko, I. E.	141
Petrov, A. D.	167
Petrov, I.	6
Petrova, M. V.	163
Petrova, N.	177
Petrovic, Milivoje	50
Petrovichev, N.	15
Petrovskiy, B. V.	129
Petunin, Ye. V.	141
Petushkov, V. N.	127
Petz, M.	147
Pevzner, L. Z.	131
Pfeiffer, H.	151
Pforr, Karl A.	45
Pien, Chun	72
Pinkhasik, M. S.	155
Pirogov, M. S.	165
Pirogov, Yu. A.	140
Pisam, H.	40
Pisarevskiy, N. N.	102, 103
Pisarski, Gregorz	38
Pis'menskiy, F.	18
Pis'min, I. N.	112
Piyl', Ye. I.	162
Pliner, A.	9
Pogodin-Alekseyev, G. I.	138
Pogosyan, Ye.	10
Point, J. J.	143
Polak, L. S.	94
Poletayev, I. A.	168
Polevichek, Ye. P.	11
Polovenko, I.	3
Poluboyarinov, D. N.	140
Poluyektov, N. S.	96
Poncelet, A.	51
Ponomarenko, E. K.	138
Ponomarev, P. V.	143
Pontys, Aatu	51
Popov, G. A.	129
Popov, K. M.	110
Popov, L. A.	178
Popova, N. M.	139
Popov-Vvedenskiy, A.	121
Portnov, A. A.	18
Portsmann, Helfried	106
Poruchikov, V. B.	166
Potenskaya, A. P.	96
Povidaylo, V. A.	108
Povolotskiy, Ye. G.	139
Pozdnyak, N. Z.	138
Pozniak, S.	38

Prakopaw, P. Ya.	180
Precht, W.	146
Preda, V.	42
Preobrazhenskiy, L. N.	2
Presnyakov, A.	9
Presnyakova, H. M.	106
Preuss, Erich	30
Prevot, F.	114
Pridantsev, M. V.	135, 140
Prinz, H.	106
Protod'yakonov, M. M.	107
Prozorovskaya, G. P.	130
Pryakhin, A. P.	164
Pshezhetskiy, S. Ya.	157, 166
Ptushyns'kiy, Yu. H.	106
Puschel, R.	148
Pushkin, V. N.	180
Pushlenkov, M. F.	95

- R -

Rabinovich, E. I.	140
Racz, Albert	33
Radeker, W.	145
Radev, Simeon	22
Rammel'meier, E. S.	88
Rass, Theodor S.	90
Rassman, G.	149
Rassokhin, N. G.	141
Ratoiu, Ion	40
Rebuffet, P.	86
Rechziegel, E.	105
Regirer, S. A.	167
Reinhardt, Hans	16
Renneisen, Erich	27
Renoul, G.	147
Reperowicz, Stanislaw	46
Ribalka, V. V.	154
Richau, G.	148
Riegerowa, Halina	36
Riemann, W.	150
Rips, Ya. A.	103
Rischpler, A.	122
River, Zambezi	46
Rocha, H. J.	147
Rodionov, G. G.	11
Rodionov, V. M.	130
Roginskiy, V. N.	107
Rojas, Clemente	
Marroquin	83
Roman, Z.	85
Romand, J.	99
Romanenko, P. N.	165
Romanov, G. S.	167
Romanowa, Kalra	38

Romantsev, Ye.	126
Rommel, H.	148
Rosa, U.	100
Rossbänder, W.	156
Rossman, F.	123
Rouff, J. R.	116
Roule, Miroslav	168
Rozenblat, M.	4
Rozenfel'd, I. L.	93
Rozenshttrakh, M. B.	6
Rozental', E. S.	13
Rubinskiy, P. S.	7
Rubtsov, G.	2
Rubtsov, N. N.	137
Rucholtz, A.	78
Ruckenstein, E.	114
Ruckert, J.	133
Rudin, A.	8
Rud'ko, Yu. S.	120
Rudnev, B. N.	108
Rudnik, S.	153
Rudolph, J.	100
Rudolph, Johannes	30
Rudy, E.	171
Rudy, Elisabeth	99
Rudy, Erwin	99
Ruff, Otto	99
Rusimov, Ivan	21
Rusznayak, Istvan	153
Ruttewit, K.	148
Ruzicka, Stanislav	45
Ryabchikov, D. I.	93
Ryabchikov, Ye.	16, 176
Ryabinin, I. A.	108
Ryabov, R. A.	137
Rybnikov, S. I.	123
Rychtera, Miroslav	105
Ryzhkov, Ye. V.	107
Rzedowski, Ignacy	35

- S -

Saakyan, G. S.	162
Sachkov, V. V.	139
Sachse, Rosemarie	31
Saison, J.	170
Saklinskiy, V. S.	138
Sala La, Eero	57
Salesse, M.	97
Salmanov, Leonid	176
Salomonovich, A. Ye.	164, 166
SamarSKIY, A. A.	160
Samoilov, B. N.	135
Samoylovich, G. S.	111, 112
Samsonov, G. V.	96, 136

Sanchez, Carlos	81	Shakov, Ye. M.	109
Saparina, Ye.	180	Shalamanov, St.	22
Sarrau, J.	114	Shapiro, B. S.	6
Sarychev, V. M.	167	Shapiro, I. S.	6
Sasaki, Nobuji	156	Sharenikov, St.	22
Satpayev, K.	4	Sharfshteyn, V. G.	14
Savchenko, P.	3	Sharonov, V. V.	119
Savich, D.	10	Shatilov, A. V.	164
Savov, Lyubomir	91	Shchegolev, R. P.	141
Savrukhin, A. P.	121	Shen, Ch'i-i	66, 79
Sayakyants, Ye. M.	127	Shepetin, L. I.	108
Sazonov, M. I.	109	Shidlovskiy, A. A.	95
Scassellati, G. A.	100	Shih, Shih-Ch'i	65
Schaedel	45	Shih, Tung-hsiang	72
Scharplatz, A.	133	Shilov, I.	7
Scheil, E.	152	Shishko, Ye. I.	129
Scheil, Erich	151	Shishlovskiy, A. A.	164
Schenck, G. O.	171	Shishova, A. M.	12
Schenck, H.	145, 146	Shkol'nik, M. Ya.	90, 94, 95
Scheufele, E.	146	Shkurko, C.	12
Schinke, Johann	29	Shlyakhov, E. N.	125
Schleicher, Erich	106	Shlyakova, K. S.	165
Schmidtman, E.	146	Shmagin, L. F.	95
Schmidts, W.	99	Shmeleva, N. I.	126
Schneider, R.	149	Shmykov, A. A.	138
Schneiders, A. L.	57	Shokin, A.	103
Schultz, Hermann	152	Shono, S.	173
Schumacher, H.	116	Shrayber, M. I.	127
Schwerd, W.	132	Shu, Ch'un	66
Scibona, G.	100	Shura-Bura, B. L.	89
Secomski, Kazimierz	35	Shustov, B. S.	119, 122
Sedel'nikov, A.	7	Shvyrkov, V.	15
Segev, Smuel	62	Sibirskiy, A.	8
Seiichi, Ishida	82	Sichikov, M. F.	2
Sekularac, B.	23	Silin, R. I.	108
Selenovich, A. S.	13	Silin, V. P.	160
Selyavo, A. P.	139	Silva, Lyndolpho	82
Semenova, O. P.	163	Simon, R.	144
Semikin, I. D.	107	Sitarz, J.	113
Semkin, A. A.	102	Sitnikov, M. A.	112
Semkov, B. F.	19	Skakic, Radomir	49
Semov, Mois	47	Sklyarevskiy, V. V.	135
Semyenov, P.	11	Slavcheff, Slavcho	48
Senemov, B.	117	Slavin, S. V.	17
Separina, Ye.	105	Slecht, Josef	26
Senemov, B.	177	Slomyanskiy, G. A.	110
Serbanescu, Gheorghe	40	Smyshlyuyeva, T. V.	102
Serbent, H.	150	Sne, H.	61
Serdyukov, V. I.	96	So, Chen	65
Seregin, A. V.	118	Sobczyk, Zenon	153
Sergent, Rene	57	Sobotovich, R. V.	90
Serri, Rino	55	Sofer, A. A.	5
Severnyy, A. B.	121	Sokhin, F. A.	131
Seydel	52	Sokolov, V. N.	167
Shakhov, E. M.	161	Solecki, Tadeusz	36

Topchiev, Petur	21
Topchiyan, M. Ye.	167
Topchiyev, A. V.	93, 94
Tran, Linkh Shen	68
Tran, Quang Viep	134
Tran, Xuan Bach	75
Trandafir, Gh.	44
Trapeznikov, V. A.	180
Trau, J.	101
Trendafilov, Toncho	21, 48
Trillat, J. J.-	170
Truong, Cong Quyen	134
Truong, Ngoc	69
Tsibanova, M. S.	137
Tsikora, S.	104
Tsi-Lyan	135
Tso, Jen-hsieh	78
Tsonkov, Geno	21
Tsurupa, D. I.	130
Tu, Ch'ing-hua	77
Tudosescu, I.	44
Tugengol'd, K.	11
Tung, Fu-Jeng	65
Tung, Lin	78
Turketti, Z. L.	118
Turko, M. N.	163
Turovtseva, Z. M.	141
Turpayev, T. M.	125
Turuizumi, Akie	101
Tushinskaya, K. I.	137
Tushinskiy L. I.	137
Tushkanov, B. A.	15
Tutoveanu, R.	40

- U -

Udachin, S.	3
Ujlaki, Laszlo	33
Ullmann, J.	114
Ulrich, W.	151
Umanskiy, A. M.	112
Umanskiy, Ya. S.	136
Ungureanu, Cornel	117
Ura, S.	153
Urazayev, Z. F.	108
Urbain, G.	143, 144
Urban, P.	171
Ushijima, K.	152
Usui, H.	152
Uvalic, Radivoje	23

- V -

Vacher, H. C.	149
Vajda, Emil	34
Valentinov, G.	179

Valuyev, N. I.	137
Vanik, Michal	45
Van Roy, G.	169
Vanyukov,	104
Varga, Ye.	7
Varshavskiy, D. S.	164
Vasilenko, G. G.	128
Vasilenko, I. S.	128
Vasilev, L.	49
Vasiljevic, L. J.	92
Vasil'yev, A. A.	6
Vasil'yev, G.	2
Vasil'yev, I. M.	88
Vavilov, V.	109
Vaysfel'd, I. L.	131
Velchev, Petur IV.	47
Velikovskiy, D. S.	94
Vengr, Karel	113
Veniss, Zoltan	33
Veremeyenko, K. N.	131
Vereshchagin, L. F.	8
Verner, Ye. E.	112
Vershinin, M.	11
Veselkov, F.	3
Veselov, V.	9
Vesnic, M.	23
Vicente, Walfredo	92
Vich, Jinfrich	45
Vieilledent, E.	170
Vig, D.	123
Vilceanu, Gr.	41
Vilenska, Esther	61
Vilesov, D. V.	108
Vilson, A. P.	88
Vinogradov, A. P.	93
Vinogradov, M. E.	89
Vinogradov, V. M.	137
Violi, G.	115
Vishnevskiy, A. A.	127
Visnyovszky, Laszlo	33
Vitkevich, V. V.	164
Vittorelli, Paolo	82
Vladimirov, B.	3
Vladimirov, H.	9
Vladimirov, N.	86
Vlasov, A. Ye.	163
Vlasov, V. G.	137
Vo, Lien	69
Vodicka, Karel	122
Vogel, R.	145
Vogel, Rudolf	170
Vogels, H. A.	146
Vogler, G.	170
Voigt, F.	170
Voinchet, J.	144
Vuinov, A. N.	107

Volf, V.	129
Volobuyev, V. I.	136
Von Bogdandy, L.	144, 145
Von Kupffer, C.	57
Vorobciuc, O.	46
Vorob'yev, V.	12
Vorob'yev, A. A.	103
Vorob'yev, G. G.	87
Voronetskiy, G. V.	165
Voronin, N. I.	140
Voronov, Avenir A.	123
Voronov, A. Ya.	166
Voronov, N. M.	93
Vorontsov, I. V.	126
Voskresenskiy, K. D.	159
Voulas, L. A.	111
Vsevolodov, B. P.	128
Vu, Canh	75
Vu, Quoc Tuan	69
Vuckovic, M.	24

- W -

Wa-cha-mu-chi	79
Wagner, G.	28
Wahlster, M.	147
Waldschmidt, Marianne	92
Wang, Hsiang-ming	64
Wang, Ta	64
Wang, T'ai-k'uei	181
Wang, Wei-P'ing	75
Wang, Yung-hsi	64
Warmuzinski, J.	117
Wasik, Antoni	38
Wasserbach, W.	115
Watanabe, S.	152
Watanabe, T.	152
Weber, Hermann	44
Weber, K. H.	171
Wedzinski, Wladyslaw	117
Weihrich, O.	114
Weinig, E.	132
Werner, A.	144
Werner, Heinz	112
Werner, L.	156
Wich, H.	149
Wiegand, H.	116, 146
Wiener, A.	60
Winkler, Heiner	31
Winter, Horst	29
Wisch, W.	171
Wohina, J.	153
Wojewodka, Czeslaw	35
Wolf, Siegfried	171
Wolgast, R.	171

Wronka, T.	37
Wu, Chia-pei	65
Wu, Tien-shih	65
Wu, Yu-ch'in	79
Wunsch, H.	145
Wunsch, W.	150

- X -

Xuan, Thuy	75
------------	----

- Y -

Yakovkin, N. A.	87
Yakovlev, A. M.	128
Yakovlev, D. G.	107
Yakovleva, A. V.	87
Yamashita, Ryuzo	67
Yan, Syao-shan	127
Yanabu, O.	152
Yaneff, Sergey	48
Yang, Chien-pai	64
Yang, Po	65
Yao, Ilin	71
Yao, Kuang	71
Yashin, D. A.	155
Yatsenko, G. G.	107
Yefimova, N. A.	120
Yefremova, A.	2
Yegorova, V. D.	101
Yegorshina, T. V.	136
Yegorychev, B. A.	165
Yeh, Hsiu	71
Yeleusizov, A.	7
Yelkin, S. N.	15
Yemel'yanov, V. M.	109
Yen, Kang	76
Yen, Pai-chen	64
Yevin'sh, Va.	12
Yezerskaya, V. A.	163
Yezerskiy, V. I.	163
Yi, Chong-su	68
Yi, Si-rok	68
Yi, Song-nin	74
Yi, Tong-gun	74
Yi-Yang-chon	68
Yu, Feng-tsun	65
Yu, Jai-man	74
Yu, Yu-sung	79
Yudin, Ye. Ya.	102
Yukhin, I. I.	164
Yunevich, D. P.	120
Yurov, S. G.	13
Yur'yev, L.	121
Yusupov, K. Yu.	125

Yusupova, En. N.	140
Yutkin, L.	111
Yutkin, L. A.	112
Yutsis, A. P.	158

- Z -

Zaccharia, Guelfo	54
Zadorogin, P.	14
Zahlaus, H.	116
Zahn, H.	97
Zakatov, P. S.	119
Zakharov, Ye. P.	167
Zakladnoy, V. S.	14
Zaleski, Tadeusz	38
Zamkovoy, V. P.	17
Zanev, Kiril G.	22
Zashchuk, I. V.	178
Zavalishina, D. N.	180
Zaytsev, A. A.	132
Zel'dovich, Ya. B.	167
Zelenka, J.	113
Zemlyanoy, M. I.	14
Zenukov, A. G.	86
Zhadin, V. I.	91
Zhdanov, V. M.	132
Zhelev, Grudi	21
Zheleznyakov, V. V.	163
Zhigalovskiya, T. N.	120
Zhirnov, Ya.	11
Zhizhel', I.	2
Zhukovskiy, G. V.	111
Zhukov-Verezhnikov, N. N.	176
Zigmund, F. F.	161
Zimina, K.	17
Zimkin, N. V.	127
Zimmer, K. O.	143
Zingl, H.	171
Zinov'yev, Yu.	14
Zitter, H.	115
Zlobinskiy, S.	10
Zohar, David	62
Zolochevskiy, M. A.	132
Zolotarovskiy, V. Ya.	128
Zotikov, I. A.	110
Zuan, Khang	70
Zubkov, S. M.	140
Zubkovskiy, S. L.	120
Zul', N. M.	14
Zuman, Petr	100
Zurek, Witold	117
Zysina, L. M.	110

*This index does not include authors listed in the cover-to-cover table of contents.

* * *

- 260 -

UNCLASSIFIED
Central Intelligence Agency



Washington, D.C. 20505

7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

A handwritten signature in cursive script, appearing to read "Sergio N. Alcivar".

Sergio N. Alcivar
Chief, CIA Declassification Center,
Declassification Review and Referral
Branch

Enclosures:

1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)

UNCLASSIFIED



Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed
by CIA and declassification guidance has been provided.

OGA Doc ID	Job Num	Box	Fldr	Doc	Doc ID	Document Title	Pub Date	Pages	Decision	Proc Date
AD0834505	78-03109A	49	1	1	36	Consolidated Translation Survey For December 1960	12/1/1960	240	Approved For Release	3/25/2004
AD0834506	78-03109A	49	1	2	37	Consolidated Translation Survey For January 1961	1/1/1961	318	Approved For Release	3/25/2004
AD0834340	78-03109A	49	1	3	38	Consolidated Translation Survey For February 1961	2/1/1961	363	Approved For Release	3/25/2004
AD0834341	78-03109A	49	1	4	39	Consolidated Translation Survey For March 1961	3/1/1961	206	Approved For Release	3/25/2004
AD0834342	78-03109A	49	1	5	40	Consolidated Translation Survey For April 1961	4/1/1961	411	Approved For Release	3/25/2004
AD0834343	78-03109A	49	1	6	41	Consolidated Translation Survey For May 1961	5/1/1961	327	Sanitized	3/25/2004
AD0834344	78-03109A	49	1	7	42	Consolidated Translation Survey For June 1961	6/1/1961	364	Approved For Release	3/25/2004
AD0834345	78-03109A	49	1	8	43	Consolidated Translation Survey For July 1961	7/1/1961	303	Approved For Release	3/25/2004
AD0834346	78-03109A	50	1	1	44	Consolidated Translation Survey For August 1961	8/1/1961	349	Approved For Release	3/25/2004
AD0834347	78-03109A	50	1	2	45	Consolidated Translation Survey For September 1961	9/1/1961	299	Approved For Release	3/25/2004
AD0834348	78-03109A	50	1	3	46	Consolidated Translation Survey For October 1961	10/1/1961	252	Approved For Release	3/25/2004
AD0834349	78-03109A	50	1	4	47	Consolidated Translation Survey For November 1961	11/1/1961	285	Approved For Release	3/25/2004
AD0834350	78-03109A	50	1	5	48	Consolidated Translation Survey For December 1961	12/1/1961	362	Approved For Release	3/25/2004
AD0834351	78-03109A	50	1	6	49	Consolidated Translation Survey For January 1962	1/1/1962	341	Approved For Release	3/25/2004
AD0834352	78-03109A	50	1	7	50	Consolidated Translation Survey For February 1962	2/1/1962	323	Approved For Release	3/25/2004
AD0834353	78-03109A	51	1	1	51	Consolidated Translation Survey For March 1962	3/1/1962	401	Approved For Release	3/25/2004
AD0834354	78-03109A	51	1	2	52	Consolidated Translation Survey For April 1962	4/1/1962	423	Approved For Release	3/25/2004
AD0834355	78-03109A	51	1	3	53	Consolidated Translation Survey For May 1962	5/1/1962	387	Approved For Release	3/25/2004
AD0834356	78-03109A	51	1	4	54	Consolidated Translation Survey For June 1962	6/1/1962	391	Approved For Release	3/25/2004
AD0834357	78-03109A	51	1	5	55	Consolidated Translation Survey For July 1962	7/1/1962	396	Approved For Release	3/25/2004
AD0834358	78-03109A	51	1	6	56	Consolidated Translation Survey For August 1962	8/1/1962	475	Approved For Release	3/25/2004
AD0834359	78-03109A	52	1	1	57	Consolidated Translation Survey For September 1962	9/1/1962	245	Approved For Release	3/25/2004
AD0834360	78-03109A	52	1	2	58	Consolidated Translation Survey For October 1962	10/1/1962	228	Approved For Release	3/25/2004
AD0834361	78-03109A	52	1	3	59	Consolidated Translation Survey For November 1962	11/1/1962	274	Approved For Release	3/25/2004
AD0834362	78-03109A	52	1	4	60	Consolidated Translation Survey For December 1962	12/1/1962	265	Approved For Release	3/25/2004
AD0834363	78-03109A	52	1	5	61	Consolidated Translation Survey For January 1963	1/1/1963	270	Approved For Release	3/25/2004